CONSTRUCTION NEWS

S ement to ENGINEERING NEWS.

New York, July 19, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
July				
*19	Dam	Lancaster, Pa	P., S. & B.S.	7-12
*19	Sewers	Lancaster, Pa	P., S. & B. S.	7-12
*19	Concrete sewer	Lancaster, Pa	P. & S.	6-21
*19	Dredging	Boston, Mass	P., S. & B. S.	6-21
*20	Electric plant	Ottawa, Kans	S	7-19
21	Air compressors	Charleston, S.C	S	6-28
*24	Steel bars	Billings, Mont	S	6-21
28	Power-house	Charleston, S. C	S	7-12
*30	Sewers	Morris, Minn	P. & S.	7-12
*31	Canal	Browning, Mont	S	6- 7
Aug.				
*2	Reservoir	Altoona, Pa	S. & B. S.	6-21
4	Power plant mchny	Norfolk, Va	S	7-12
4	Chimney	New Orleans, La	S	7-12
7	Pumping plant	Billings, Mont	P., S. & B. S.	7- 5
*8	Macadam	Camden, N. J	P., S. & B. S.	7-19
13	Bridge	Battleford, Sask	P	7-19
*30	Tunnel	Salt Lake City, Utah	P., S. & B. S.	6-21
Sept.				
15	Hotel bldg	Manila, P. I	S	3-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue.

July 20. Elec. plant, water-works, Ottawa, Kans..July 5
Advertised, Eng. News, July 5 and 12.
July 21. Gas supplies, Medicine Hat, Alta.......July 5
July 21. Equipment, Charleston, S. C............July 12
July 23. Light plant, Cartersville, Ga............July 12
July 25. Heating, Fort Wayne, Ind..............July 19
July 26. Power-house, Rochelle, Ill..............July 19
Advertised, Eng. News, July 19.
July 26. Electrical work, New York, N. Y......July 19
July 26. Heating, Portland, Ore.................July 12
July 28. Light plant, Hyattsville, Md............July 19
Advertised, Eng. News, July 19.
July 30. Lighting fixtures, Fortress Monroe, Va.July 5
Advertised, Eng. News, July 5 to 26.
July 30. Power plant, Idaho Falls, Idaho........July 5
Advertised, Eng. News, July 5 and 12.
Aug. 1. Lighting plant, Glasgow, Mont.........July 12
Advertised, Eng. News, July 12 to 26.
Aug. 2. Light plant, Lowellville, Ohio..........July 19
Aug. 14. Elec. apparatus, Williston, N. Dak......July 12
Advertised, Eng. News, July 12 to 26.
Sept. 10. Electric machinery, Williston, N. Dak..July 19
Advertised, Eng. News, July 19 to Aug. 16.
Sept 18. Lighting, Pottsville, Pa..................July 12

BRIDGES.

July 19. Bridge, West Newton, Pa...............July 12
July 20. Bridge, Troy, Ohio........................July 12
July 20. Bridge, Toledo, Ohio......................July 12
July 20. Five bridges, Duluth, Minn.............July 12
July 23. Bridges, St. Clairsville, Ohio............July 12
July 23. Bridge, Leland, La.........................July 19
July 24. Bridge, Monticello, Ill....................July 12
July 25. Steel approach, Lyons, Iowa.............July 12
Advertised, Eng. News, July 12.
July 25. Bridges, Albany, N. Y....................July 5
July 25. Bridge, Montrose, Pa.....................July 19
July 28. Bridge, Varney, Ont.......................July 19
July 28. Two bridges, Chandler, Okla............July 19
July 28. Two bridges, New Philadelphia, Ohio..July 19
July 30. Bridge work, Sydney, Ohio..............July 19
July 30. Superstructure, Cincinnati, Ohio........July 12
Aug. 1. Draw, Gardiner, Me.......................July 12
Aug. 1. Bridge, Glenwood Springs, Colo........July 19
Aug. 4. Bridge approach, Lyons, Iowa.........July 19
Advertised, Eng. News, July 19 to Aug. 9.
Aug. 6. Abutments, Jefferson, Ohio.............July 19
Aug. 6. Two bridges, Tipton, Ind...............July 19
Aug. 6. Two bridges, Conconully, Wash.........July 19
Aug. 7. Three bridges, Vincennes, Ind..........July 19
Aug. 11. Reconstruction, Fortress Monroe, Va....July 19
Advertised, Eng. News, July 19 and 26.
Aug. 13. Two bridges, Topeka, Kans...............July 12

BUILDINGS.

July 19. Schools, Schenectady, N. Y..............July 19
July 23. Lightkeepers dwelling, etc., Phila., Pa..July 5
Advertised, Eng. News, July 5 and 12.
July 23. Buildings, Jackson, Miss.................July 12
July 24. High school, Brazil, Ind..................July 19
July 24. Morgue, New York, N. Y...................July 19
July 25. Court-house, Britton, S. Dak............July 19
July 25. Hot water, Rochester, N. Y..............July 12
Advertised, Eng. News, July 12.
July 30. Reconstruction, Albany, N. Y...........July 12
Advertised, Eng. News, July 12 and 19.
July 30. Structural work, Elmira, N. Y.........July 19
Advertised, Eng. News, July 19 and 26.
July 30. Alterations, Albany, N. Y.............July 19
Aug. 1. Library, Denver, Colo....................July 19
Aug. 6. Employees' building, Rome, N. Y........July 12
Advertised, Eng. News, July 12 to 26.
Aug 7. Six buildings, Jackson, Miss..............July 12
Aug. 10. College building, Ames, Ia..............July 19
Aug 27. Court-house, Gallatin, Mo................July 19
Sept. 15. Hotel, Manila, P. I......................Mar. 29

WATER SUPPLY AND IRRIGATION.

July 19. Dam, Lancaster, Pa......................June 21
Advertised, Eng. News, June 21 and 28.
July 21. Water meters, Washington, D. C........July 5
Advertised, Eng. News, July 5 and 12.
July 23. Water-works, Logan, Kans...............July 12
July 23. Water-works, Biwabik, Minn.............July 12
July 23. Extension, Andover, N. B.................July 19
July 24. Water-works, Port Elgins, Ont...........July 12
July 25. Water-works, Lebanon, Kans.............July 12
July 25. Pumping engines, New York, N. Y.....July 12
July 25. Superheaters, New York, N. Y..........July 19
July 25. Hydrants, New York, N. Y...............July 19
July 25. Water mains, New York, N. Y..........July 19
July 26. Reservoir, Rochelle, Ill.................July 19
Advertised, Eng. News, July 19.
July 26. Laying wood pipe, Macleod, Alta.......July 19
July 26. Water-works material, Jackson, Ga....July 12
July 28. Machinery, Perrysburg, Ohio...........July 12
Advertised, Eng. News, July 12 and 19.
July 31. Extension, New Orleans, La.............July 19
July 31. Water tower, etc., Norfolk, Va.........July 19
Aug. 1. Cast-iron pipe, Vancouver, B. C.........July 19
Aug. 1. Pumping engine, Milwaukee, Wis........July 19
Aug. 1. Filter plant, Philadelphia, Pa...........July 12
Aug. 1. Filter plant, Philadelphia, Pa...........July 12
Advertised, Eng. News, July 12 to 26.
Aug. 1. Water-works, Glasgow, Mont............July 12
Advertised, Eng. News, July 12 to 26.
Aug. 1. Water-works, Glasgow, Mont............June 21
Aug. 1. Artesian wells, Famagusta, Egypt......May 31
Advertised, Eng. News, May 31 to June 21.
Aug. 2. Storage reservoir, Altoona, Pa..........June 21
Advertised, Eng. News, June 21 to July 19.
Aug. 2. Water-works, Kingsley, Mich..........July 19
Advertised, Eng. News, July 19.
Aug. 4. Pipe, Washington, D. C...................July 19
Advertised, Eng. News, July 19 and 26.
Aug. 6. Pumping engines, Orange, N. J.........July 12
Advertised, Eng. News, July 12.
Aug. 7. Pumping plant, Billings, Mont...........June 21
Advertised, Eng. News, June 21 to July 5.
Sept. 5. Two reservoirs, New Orleans, La........June 21
Advertised, Eng. News, June 21 to Aug. 30.
Oct. 15. Water-works, Rio Grande do Sul, Brazil. May 31

SEWERAGE.

July 19. Concrete sewer, Lancaster, Pa..........June 21
Advertised, Eng. News, June 21 and 28.
July 19. Sewers, Elgin, Ill.........................July 12
July 19. Sewers, Cambridge, Ohio..................July 12
July 19. Sewer, Coshocton, Ohio....................July 12
July 20. Sewers, New York, N. Y...................July 12
July 20. Sewers, McPherson, Kans..................July 5
July 20. Sewer, Saratoga Springs, N. Y.........July 19
July 23. Sewer, Verona, Pa.........................July 19
July 23. Sewer, Toledo, Ohio........................July 19
July 23. Sewers, Newark, Ohio......................July 19
July 23. Sewers, Syracuse, N. Y...................July 19
July 23. Sewer, Muskegon, Mich...................July 19
July 23. Sewers, Biwabik, Minn....................June 19
July 24. Sewers, Dallas, Tex........................July 19
July 25. Disposal plant, Terrell, Tex.............July 19
July 25. Sewer, Indianapolis, Ind..................July 19
July 25. Sewers, etc., Hoboken, N. J.............July 19
July 25. Sewers, Radford, Va........................July 12
July 25. Sewers, New York, N. Y...................July 12
July 26. Sewers, New Bremen, Ohio...............July 12
July 26. Sewers, Cincinnati, Ohio..................July 12
July 26. Sewers, New York, N. Y...................July 19
July 26. Sewer, Mount Holly, N. J.................July 19
July 27. Sewer, Iowa City, Iowa...................July 19
July 28. Sewer system, Des Moines, Iowa........July 19
July 30. Sewage pumps, Sacramento, Cal.........July 19
July 30. Sewer, Morris, Minn.......................July 19
July 30. Sewers, South Omaha, Nebr..............July 12
Advertised, Eng. News, July 12 and 19.
Aug. 2. Sewers and drains, Cincinnati, Ohio......July 19
Aug. 3. Sewers, Malden, Mass.....................July 12
Advertised, Eng. News, July 12.
Aug. 4. Sewers, Ogden, Utah.......................July 12
Aug. 6. Sewers, Washington, D. C...............July 19
Advertised, Eng. News, July 19 and 26.
Aug. 6. Sewer, Evansville, Wyo..................July 19
Aug. 6. Sewer, Grand Forks, N. Dak.............July 19
Aug. 11. Sewers, Seneca Falls, N. Y..............July 19
Advertised, Eng. News, July 19 and 26.
Sept. 7. Sewer gates, Manila, P. I................July 5
Advertised, Eng. News, July 5 to Aug. 23.

STREETS AND ROADS.

July 19. Paving, Phoebus, Va......................July 5
Advertised, Eng. News, July 5 and 12.
July 19. Paving, Elgin, Ill.........................July 12
July 19. Paving, Coshocton, Ohio...................July 12
July 20. Paving, Washington, D. C.................July 12
Advertised, Eng. News, July 12.
July 20. Grading, etc., Cincinnati, Ohio..........July 12
July 20. Paving, Janesville, Wis...................July 5
July 20. Stone roads, New Brunswick, N. J......July 5
July 20. Road improvement, New Brunswick, N. J. July 19
July 20. Macadam, Cincinnati, Ohio...............July 19
July 20. Paving and curbing, Harrisburg, Pa......July 19
July 21. Gravel roads, Concord, N. C............July 19
July 21. Brick paving, Beardstown, Ill............July 19
July 23. Brick paving, Peoria, Ill..................July 19
July 23. Paving, Salt Lake City, Utah............July 19
July 23. Paving, Toledo, O.........................July 19
July 23. Paving, Niles, Ohio........................July 19
July 23. Paving, Syracuse, N. Y....................July 19
July 23. Macadam, Boston, Mass...................July 19
July 23. Stone road, Jasonville, Ind..............July 19
July 23. Brick paving, Piqua, Ohio................July 19
July 23. Improvements, Canton, Ohio.............July 5
July 23. Paving, Jamestown, N. Y.................July 12
Advertised, Eng. News, July 12.
July 24. Grading, etc., New York, N. Y..........July 12
July 24. Macadam, Newark, Ohio...................July 19
July 25. Repaving, Hoboken, N. J.................July 19
July 25. Paving, Tamaqua, Pa.......................July 19
Advertised, Eng. News, July 12 and 19.
July 25. Paving, New York, N. Y...................July 12
July 25. Paving, Moundsville, W. Va...............July 12
July 25. Paving, Donaldsonville, La...............July 12
July 26. Grading, etc., Cincinnati, Ohio..........July 12
July 26. Sidewalks and streets, New York, N. Y. July 19
July 26. Plank road, Jersey City, N. J..........July 19
July 27. Roads, Pittsburg, Pa.....................July 12
July 27. Walks, etc., Fortress Monroe, Va.......June 28
Advertised, Eng. News, June 28 to July 19.
July 28. Grading streets, Janesville, Wis.........July 19
July 30. Paving, etc., Cincinnati, Ohio...........July 12
July 31. Macadam, Haverhill, N. H.................July 19
July 31. Brick paving, Pottsville, Pa............July 19
Aug. 1. Paving, Peekskill, N. Y.....................July 5
Advertised, Eng. News, July 5.
Aug. 1. Wagon road, Denver, Colo..............July 19
Aug. 1. Gravel road, Atlantic City, N. J.......July 19
Aug. 1. Paving, Findlay, Ohio.....................July 19
Aug. 1. State road, Harrisburg, Pa..............July 19
Aug. 3. Rubble stone paving, Petersburg, Va....July 19
Aug. 3. Brick paving, Cincinnati, Ohio..........July 19
Aug. 3. Paving, Petersburg, Va....................July 12
Advertised, Eng News, July 12 to 26.
Aug. 6. Gravel road, Jasper, Ind..................July 19
Aug. 6. Gravel roads, Bloomfield, Ind...........July 19
Aug. 6. Paving, St. Paul, Minn....................July 19
Aug. 6. Gravel roads, Crownpoint, Ind..........July 19
Aug. 6. Grading and paving, Ashland, Ohio.....July 19
Aug. 7. Gravel roads, Brazil, Ind.................July 19
Aug. 7. Gravel road, Martinsville, Ind..........July 19
Aug. 7. Gravel roads, Bedford, Ind..............July 19
Aug. 7. Gravel roads, Vincennes, Ind...........July 19
Aug. 7. Paving, etc., Salisbury, Md.............July 19
Advertised, Eng. News, July 19 to Aug. 2.
Aug. 8. Gravel road, Paoli, Ind..................July 19
Aug. 8. Macadam, Camden, N. J...................July 19
Aug. 9. Asphalt paving, Memphis, Tenn.......July 19
Aug. 12. Gravel road, Valparaiso, Ind..........July 19
Aug. 14. Paving, Independence, Kans............July 19
Advertised, Eng. News, July 19.

MISCELLANEOUS CONTRACTS.

July 19. Dredging, Boston, Mass..................June 21
Advertised, Eng. News, June 21 to July 12.
July 19. Concrete dam, Roscoe, Ohio............June 21
Advertised, Eng. News, June 21 to July 5.
July 19. Dredging, Roscoe, Ohio..................June 21
Advertised, Eng. News, June 21 to July 5.
July 20. Breakwater, Culloden, N. S............July 12
July 21. Wharf, Poirierville, N. S................July 12
July 21. Air compressors, Charleston, S. C......June 28
July 21. Underground cables, Washington, D. C...July 19
Advertised, Eng. News, July 19.
July 23. Ditch, Spirit Lake, Iowa.................July 5
July 24. Steel, Olongapo, P. I......................June 28
July 24. Steel bars, Billings, Mont................June 21
Advertised, Eng. News, June 21 to July 5.
July 24. Canal widening, Detroit, Mich...........June 7
Advertised, Eng. News, June 7.
July 24. Concrete-steel arch dam, Prattville, Ala. July 12
Advertised, Eng. News, July 12 and 19.
July 24. Naval supplies, Washington, D. C........July 19
July 27. Excavation, Watertown, Mass...........July 19
Advertised, Eng. News, July 19.
July 25. Construction work, Whitefish, Mont.....July 12
Advertised, Eng. News, July 12 and 19.
July 25. Canal, Albany, N. Y......................June 28
July 27. Repairing dam, Cincinnati, Ohio.........June 28
Advertised, Eng. News, June 28 to July 19.
July 27. Elec. railway, Hamilton, Ont............July 12
Advertised, Eng. News, July 12.
July 27. Improving creeks, Albany, N. Y.......July 12
Advertised, Eng. News, July 12 to 26.
July 30. Dredging, etc., Los Angeles, Cal.........July 12
Advertised, Eng. News, July 12 and 19.
July 30. Pile piers, Manitowoc, Wis.............July 5
Advertised, Eng. News, July 5 and 12.
July 30. Levee, Vicksburg, Miss..................July 19
Advertised, Eng. News, July 19 and 26.
July 30. Ditch, Alexandria, Minn.................July 19
July 31. Levee, Greenville, Miss..................July 19
Advertised, Eng. News, July 19 and 26.
July 31. Canal, Browning, Mont...................June 7
Advertised, Eng. News, June 7 to July 5.
Aug. 3. Canal, Port Huron, Mich..................July 12
Advertised, Eng. News, July 12 and 19.
Aug. 3. Corral fences, Ft. Ethan Allen, Vt......July 12
Advertised, Eng. News, July 12 to 26.
Aug. 5. Destructors, Edmonton, Alta.............July 5
Advertised, Eng. News, July 5 and 12.
Aug. 7. Pumping plant, Billings, Mont...........June 21
Advertised, Eng. News, June 21 to July 19.
Aug. 9. Levee, Memphis, Tenn...................July 12
Advertised, Eng. News, July 12 to Aug. 2.
Aug. 13. Granite posts, etc., Newport News, Va..July 12
Advertised, Eng. News, July 12 and 19.
Aug. 14. Light-house, Mobile, Ala..................July 19
Advertised, Eng. News, July 19 to Aug. 16.
Aug. 20. Dredges, St. Louis, Mo....................July 19
Advertised, Eng. News, July 19, 26, Aug. 9 and 16.
Aug. 23. Grading, steel bars, Billings, Mont......July 12
Advertised, Eng. News, July 12 to 26.
Aug. 30. Canals, etc., Williston, N. Dak..........July 12
Advertised, Eng. News, July 12 to 26.
Aug. 30. Tunnel, Boston, Mass.....................June 21
Advertised, Eng. News, June 21 to July 26.
Aug. 30. Tunnel, Salt Lake City, Utah............June 21
Aug. 31. Drainage, St. Augustine, Fla............July 19
Aug. 31. Dipper dredge, St. Augustine, Fla......July 19
Sept. 4. Railway supplies, Siam (Foreign)......Apr 26
Advertised, Eng. News, Apr. 26.
Sept. 4. Cars, Bangkok, Siam......................May 31
Advertised, Eng. News, May 3 and 10.
Sept. 4. Railway ties, Ottawa, Ont..................July 5
Sept. 11. Canals, ditches, Williston, N. Dak.....July 19
Advertised, Eng. News, July 19 to Aug. 9.
Sept. 12. Locomotives, Bangkok, Siam..........May 31
Advertised, Eng. News, May 3 and 10.
Sept. 26. River dredging, Chicago, Ill..............July 19
Sept. 26. Dredging plant, Chicago, Ill.............July 19
Oct. 1. Lock, Donaldsonville, La...................July 5
Advertised, Eng. News, July 5 to Sept. 27.
Oct 15. Drains, Rio Grande do Sul, Brazil......May 31
Oct. 15. Steel sheds, Manila, P. I...................July 5
Oct. 15. Steel sheds, Rys., Manila, P. I..........July 19
Advertised, Eng. News, July 19 to Aug. 30.

CIVIL SERVICE EXAMINATIONS.

Aug. 8. Surveyor, Philippine Islands.............July 5
Aug. 8. Arch. Draftsman, Tompkinsville, N. Y..July 5
Aug. 15. Arch. Draftsman, Philippine Islands....July 5
Aug. 22. Tracer, Panama.............................July 19
Aug. 22. Science Engineer, Manila, P. I........July 19

Proposed Work

ENGINEERING NEWS desires to obtain the **EARLIEST POSSIBLE RELIABLE INFORMATION** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA & NORTHWESTERN.—P. D. Langdon, of Augusta, Ga., an incorporator, writes us, under date of July 9th, that contracts for construction work will be let in about six weeks. Surveys are about completed and charter can be secured at once. This company was recently incorporated in Georgia to build a 90-mile railway, from Augusta to Athens, Ga., as noted on June 21.

BALTIMORE & OCEAN CITY.—This company, which was chartered by last Maryland Legislature, plans to begin operations soon on its monorail line from Baltimore to Ocean City, about 113 miles, it is reported. F. H. Sloan, of Baltimore, is interested. The officers of the new company are: Gen. Joseph B. Seth, of Easton, Md., Pres.; H. C. Turnbull, Secy., and Harry W. Williams, Treas. The Board of Directors comprises the officers and Ruxton M. Ridgeley, Walter R. Townsend, Edward L. Ward and Olin Bryan, of Baltimore; George F. Taylor and Samuel E. Wilson, of Pittsburg, Pa.; B. Frank Wagomon and Charles L. Moore, of Wilmington, Del., and William S. Gordy, of Salisbury, Md.

BERKELEY R. R.—It is said that this railroad will be sold at auction on July 23. The line is ten miles long, extending from Chicora, S. C., to Monck's Corners. An extension may be built. P. R. Rivers is Receiver, at Charleston, S. C.

CANADA.—Hon. Henry R. Emmerson, Minister of Railways and Canals, has given notice of resolutions in regard to subsidies for new railway lines, which will be voted upon at this session of House of Commons. The total amount is $9,399,900, divided among the provinces as follows: Quebec, $3,574,100; Ontario, $2,925,000; Maritime Provinces, $1,697,600; Western Canada, $1,203,200. Following are the details of the subsidies for the various privinces: Maritime Provinces—Halifax to Guysborough and New Glasgow to County Harbor, 230 miles, $736,000; Shediac and Coast Ry to Shemogue, 38 miles, $121,600; Halifax and Southwestern Ry. to Barrington, 185 miles, $592,000; Debert Station to Debert Coal Mines, 4½ miles, $14,400, on I. C. R.; Truro to Brule, 34 miles, $108,800; St. Rose to Orange Dale and from Mines Road Station to Caribou Cove, 38 miles, $121,600; Wolfville to Government Pier, one mile, $3,200. Quebec—Lotbiniere and Megantic Ry. Co., 50 miles, $160,000; Lake Nominingue to La Lievere, 35 miles, $112,000; Quebec to Seven Islands with branches, 200 miles, $640,000; Roberval to James Bay, 100 miles, $320,000; Cape Tourmento to Murray Bay, 20 miles, $64,000; Atlantic, Quebec and Western Gaspe to Causapascal to I. C. R., and in to Edmunston and Paspebrac to Gaspe, 362 miles, $1,158,400; Quebec Central, St. Francois to St. George and Scott Junction to Quebec Bridge, 32 miles, $122,400; St. Constant to the International boundary, 20 miles, $89,000; Lotbiniere and Megantic Railway Co., from Lyster to Quebec Bridge, 30 miles, $96,600, and from La Tuque to River Jeanette, 35 miles, $112,000; Quebec and Lake St. John Ry. from Lac Bouchette to St. Andre, 13 miles, $41,600; Quebec and Lake St. John Ry. from Roberval to government wharf, 1 mile, $3,200; Jonquieres to La Bare des Ha Ha, 20 miles, $64,000; Great Northern Ry. Co., from Arundel to Preston and Hartwell and connecting Montford and Gatineau with main line, 52 miles, $176,800; Great Northern, Garneau to Quebec Bridge, 70 miles, $224,000; St. Agathe to near Lake St. Joseph, 15 miles, $48,000; St. Andrew's Argenteuil Co., through St. Placade, St. Eustache and St. Martin, 33 miles, $169,600; Ottawa Northern & Western Ry. from Aylmer to Hull, 9 miles, $25,800; Waltham Station to Ferguson, Pontiac Co., 20 miles, $64,000. Ontario—Manitoulin & North Shore Ry. from Little Current to Sudbury, 64 miles, $204,800; Algoma Central & Hudson Bay Ry., from Saulte Ste. Marie to C. P. R., and branch line, 200 miles, $640,000; Nepigon Ry. Co., 80 miles, $256,000; Shar- $131,000; Owen Sound to Meaford, 30 miles, $96,000; Kingston to Ottawa, 161 miles, $515,200; Lake Superior, Long Lake and Albany, 10 miles, $32,000; Bay of Quinte Ry., 20 miles, $64,000; Ontario, Northern & Temagani, 50 miles, $160,000; Manitoulin & North Shore Ry. from a point between Little Current and Sudsbury to Algoma Central & Hudson Bay Ry., 130 miles, $416,000; Brockville and Westport and Sault Ste. Marie, $86,800; Toronto, Lindsay and Pembroke, Golden Lake to Bancroft, 51 miles, $163,200; Interprovincial & James Bay Ry., Lake Temiskaming at terminus of C. P. Ry., 50 miles, $160,000. Western Canada—Wellington to Union Bay, B. C., 55 miles, $176,000; Western Alberta Ry. Co., 50 miles, $160,000; Tuelon to the Icelandic River, Manitoba, 35 miles, $112,000; Kootenay Central, Golden to International Boundary, 186 miles, $595,200; Kettle River Valley, Grand Forks up North Fork, Kettle River, 50 miles, $160,000.

CAIRO & KANAWHA.—We are officially advised that this company will award contracts between Aug. 1 and Aug. 20 for building a 7-mile extension from Macfarlan to Smithville, W. Va. S. A. Moore is Gen. Mgr., at Philippi, W. Va.

CHICAGO & NORTHWESTERN.—Company has awarded contract to KILPATRICK BROS. & COLLINS, of Beatrice, Nebr., for building an extension, 26 miles long, from Bonesteel, S. Dak., westward. It is to be completed by Sept. 15. Subcontracts have been let.

CHICAGO, ROCK ISLAND & PACIFIC.—With an appropriation of about $500,000 the telegraph lines of the system are being rebuilt. The two principal offices will be located at Chicago and Topeka, Kans. J. G. Jennings is Supt. Telegraph, at Chicago.

CANADIAN NORTHERN.—Contract for grading the line between Hawkesbury and Ottawa, Ont., has been let to A. SCHELL, of Glengary, Man. It will be 55 miles long.

DENVER & RIO GRANDE.—Construction will begin soon on a line, 14½ miles long, from the Rio Grande Western to the mines of the Utah Copper Co., near Bingham, Utah. The new line will be used by both the Utah Copper Co. and the Boston Consolidated Mining Co. The contract for grading, which will be mostly through rock, has been let to the UTAH CONSTRUCTION CO., of Ogden. The maximum gradient is 2½%; maximum curvature 16°. There will be two small tunnels, aggregating less than 600 ft. in length, and a number of wooden trestles. C. A. Blake is Div. Engr., at Salt Lake City.

DAKOTA MIDLAND.—Incorporated in South Dakota, with $500,000 capital, to build a line crossing the state from north to south along the Missouri River. L. R. Giddings and L. E. Giddings, of New York, are the promoters. Others interested in the project are: Charles O. Elwood, of Minneapolis, Minn.; Phil. Lawrence and M. E. Priter, of Huron, S. Dak. The office of the company is to be at Huron, S. Dak. The proposed route is from a point on the Sioux River in Union County, opposite Sioux City, northwest through the state to a point on the north line in Campbell County, passing through the Counties of Union, Clay, Yankton, Turner, Hutchison, Douglas, Davison, Aurora, Brule, Jerauld, Buffalo, Hand, Hyde, Hughes, Sully, Potter, Faulk, Walworth, Edmunds, Campbell and McPherson.

ELDORADO, MARION & SOUTHWESTERN.—This company has been incorporated in Illinois to build a line from Eldorado through Saline, Williamson, Jackson, Union and Alexander Counties to the Mississippi River. The incorporators and first board of directors are: S. T. Brush, Carbondale; John Colp, Carterville; Charles Agent, Marion; S. H. Rundy and Charles E. Owen, Carterville.

ESSEX TERMINAL.—This company, incorporated in 1902 to build a line from Walkerville, on the Grand Trunk, Pere Marquette & Wabash, in the southwest corner of Ontario, south to Amherstburg, about 20 miles, and which had its charter amended in 1904, has applied to the Railway Commission for the approval of its location plans. F. A. Hough and J. A. Auld, of Amherstburg; S. A. King, Windsor, and G. F. Porter and W. Pope, of Walkerville, are named as provisional directors.

GRAND TRUNK PACIFIC.—THE DOMINION IRON & STEEL CO., of Sydney, N. S., has received a large contract from this company for steel rails.

GEORGIA, FLORIDA & ALABAMA.—The company's charter has been amended to permit the construction of a branch line from the main line at Cuthbert, Ga., through Randolph and Stewart or Quitman Counties, to a point near Omaha, in Stewart County. It is to be standard gage. A second amendment to the charter of the same road permits the building of a branch line from Colquitt through Miller, Early or Clay Counties to the Chattahoochee River, thence through Henry County or Barber County, Ala., to Eufaula. W. B. Denham, Gen. Mgr., at Bainbridge, Ga.

INTERIOR & WEST VIRGINIA.—In connection with this new company, which was noted last week, L. E. Johnson, Pres. of the Norfolk & Western Ry., states that the proposed Interior & West Virginia R. R. and the Virginia & Potts Creek R. R. will be an extension of the Big Stony Ry. The length of the two lines will be about 29 miles through a mountainous country. No bids have been asked for construction and no equipment will be purchased. C. S. Churchill, Ch. Engr., N. & W., is in charge. The Virginia & Potts Creek R. R. Co. has been incorporated to build a line 11 miles long from Potts Creek, on the West Virginia boundary, to Botto Creek, in Craig County, Virginia.

JAMES BAY RY.—ANGUS SINCLAIR, of Parry Sound, Ont., has been awarded contract for building a 10-mile branch line in Ontario.

KANSAS CITY, MEXICO & ORIENT.—According to a press report, E. Dickinson, Gen. Mgr. and Vice-Pres., has announced that the 619 miles of road now in operation will be increased to 1,100 miles after Jan. 1.

LAS VEGAS & TONOPAH.—Contract has been let to DEAL BROS. & MENDENHALL, of Springville, Utah, for building the line from Las Vegas, Nev., to the Bullfrog mining district, 123 miles; 96 miles have been completed. The company will build from Bullfrog northwest to Goldfield, an additional 75 miles, it is reported. A. Maguire is Ch. Engr., at Las Vegas.

LORAIN, ASHLAND & SOUTHERN.—Announcement is made that the Industrial and the Lorain & Ashland R. R. companies are to be consolidated and will be known as the Lorain, Ashland & Southern R. R. Construction will begin at once.

MIONA SPRINGS RY.—We are officially informed that this railway will be about 27 miles in length, extending from Southland to Fort Valley, Ga. Company has not yet organized. Right-of-way is mostly secured and surveys are made. Except for construction of one river bridge, construction work will be light. Contracts may not be let as company may do its own building. Most of capital stock is subscribed; capital is $100,000. As it will cost about $200,000 to build the road, the company probably will issue bonds for $100,000. Noted on June 21.

NEW YORK, NEW HAVEN & HARTFORD.—The "Journal of Commerce" states that "according to a statement made by A. W. Martin, Asst. Gen. Supt. of the New York, New Haven & Hartford Railroad, at Boston, the Providence division will be four-tracked from Providence to Boston. There are now four tracks beyond Readville, the new Attleboro work insures four tracks for a considerable distance and two tracks will be laid for the four-track location from East Junction to the Seekonk River, the double track entering the Providence station through a tunnel. By this new scheme the entire distance will be adapted for high speed and the heaviest traffic."

MOBILE & WEST ALABAMA.—This company, which proposes to build a line from Florence, Ala., to Mobile, Ala., with a branch from Tuscaloosa to Birmingham, has elected a new board of directors, as follows: George J. Stegmain, M. J. Murry, John F. McLaughlin, E. J. Lynett, M. J. Martin, L. A. May, M. E. McDonald, H. Austill, F. G. Blair, M. G. Winn and J. A. Montgomery. Messrs. McDonald and May are also named as incorporators of the Mineral Belt Railway and the Wayne Railway, recently incorporated to build a line about 40 miles long from Florence, Ala., to Mannie, Tenn.

NORTHEASTERN.—Incorporated by J. C. Heintz, P. Harnischfyer, of New York; J. T. Marchand, J. B. Lapointe, Montreal, and R. Chevrier, Ottawa, with $1,000,000 capital and office in Montreal, at the last session of the Quebec Legislature to build the following lines: From a point near Ville Marie, on Lake Temiskaming, east, passing the southern bays of Lakes des Quinze, Victoria and Kakebonga, to Quebec; from Lake Temiskaming to the National Transcontinental near Lake Abitibi; from near Lake Kakebonga to Maniwaki, and from near the Gatineau River to Nominingue.

PENNSYLVANIA R. R.—This company plans to open for operation its low-grade freight line between Columbia and Atglen about Aug. 1. The work that still remains to be done is a cut of 1,000 ft. near Quarryville. Atglen, the eastern terminus of the low-grade line, is 47 miles west of Philadelphia. Between that point and Glen Loch, where the Trenton cut-off begins, a distance of 22 miles, two freight tracks have already been built for the greater part of the way and are now in use. From Glen Loch to 56th St., Philadelphia, a distance of about 20 miles, the company intends to build a separate freight line south of the present main line, and has already secured most of the right-of-way.

TEMISKAMING & NORTHERN ONTARIO.—The Ontario government has authorized this company to build three short branches to the Cobalt mining area and the agricultural region to the north. One of these is from Haileybury to the Dominion government wharf on Lake Temiskaming; another from Englehart to Charlton, serving a district around Long Lake; and a third from a point near Cobalt to Kerr Lake, six miles distant, giving shipment facilities to many working mines. G. A. McCarthy is Ch. Engr., at North Bay, Ont.

TOMBIGBEE VALLEY RY.—It is said that contracts will be let for building a 15-mile extension from Healing Springs, Ala., northward. J. T. Cochrane is Pres. and Gen. Mgr., at Aliceville, Ala.

UNION PACIFIC.—The following is an official statement of track laid on extensions of this system since Jan. 1: On the line from O'Fallons to Northport, Nebr., track laid from end of track 3.96 miles northwest of O'Fallons northwest for a distance of 20 miles, leaving 90.9 miles to complete to Northport. Topeka & Northwestern, track laid this year from Emmett to Onaga, Kans., 11.34 miles, and grading commenced on an extension from Onaga to Carden, 32.44 miles. No track has yet been laid on the branch from Stromsberg to Central City, Nebr., 22.12 miles, or on the South Omaha & Western, which is under construction from Summit to Lane, Nebr., 11.6 miles. A. L. Mohler is Vice-Pres. and Gen. Mgr., and R. L. Huntley, Ch. Engr., both of Omaha, Nebr.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

OSSINING, N. Y.—Contracts will be awarded by the Hudson River & Eastern Traction Co., we are officially advised, as soon as necessary franchises are obtained, for building the line from Ossining to Mount Pleasant and Sherman Park. Surveys are made and right-of-way is in part obtained. Capital for constructing the railway is secured. Motive power will be overhead electricity. L. B. Grant is Pres. and C. H. Werner, Treas., at 32 Liberty St., New York.

PEEKSKILL, N. Y.—The Putnam & Westchester Traction Co. has incorporated with a capital of $75,000. It proposes to build a trolley line from the intersection of North Division and Main Sts., in Peekskill, to Oregon, in the town of Putnam Valley, Putnam County, a distance of 3¾ miles. John S. Ladd, of Peekskill; Francois J. G. Ladd, of Richmond Hill (L. I.), N. Y., and Walter A. Perry, of Putnam Valley, are among the directors.

ADDISON, N. Y.—The Tuscarora Traction Co., of Addison, Steuben County, has been incorporated to operate an electric road from Addison to Jasper, Steuben County, a distance of 18½ miles; capital $500,000. The directors include Thomas E. Harden of Addison; John M. Connelly and George R. Brown, of Elmira.

OLEAN, N. Y.—The Rock City Railroad Co., of Olean, a reorganization of the Olean, Rock City & Bradford Railroad Co., running between Olean, N. Y., and Bradford, Pa., a distance of 20 miles, has been incorporated, with a capital of $100,000. Among the directors are Charles V. Nellany, Oscar F. Corgi and Albert M. Hartung, of Buffalo.

NEW YORK, N. Y.—A press report states that the Board of Rapid Transit Railroad Commissioners of New York City is planning to ask for bids for building subways in Lexington, Third, Seventh and Eighth Aves., Manhattan, and in Fourth Ave., Brooklyn, on or before Jan. 1 next. The various commissions appointed by the court have reported favorably on nine of the eleven routes thus far considered. The Appellate [illegible] Division, it is expected, will shortly give [illegible] consent to the plans. As soon as the approval is given George S. Rice, Ch. Engr., will [illegible] plans made for the principal routes. The surveys have already been made. Chief Engineer Rice says it will take about three [illegible] to prepare the plans for the main [illegible] and these should be completed by Nov. [illegible] Advertising for bids will take about [illegible] so that the awarding of the first large contracts may take place early in 1907. The [illegible] on the city's authority to incur [illegible] will probably prevent the construction [illegible] more than one important subway within [illegible] next few years.

MALONE, N. Y.—William Wen[illegible] of New York, is reported to have been [illegible]ted a 40-year franchise to operate a gas[illegible] motive power railway in this place.

FREDERICK, MD.—J. Roger McSherry, Vice-Pres. of the Frederick & Middletown Railroad Co., announces that the Jefferson & Braddock Heights Ry. Co., of which [illegible] an incorporator, proposes to build from Jefferson to Braddock Heights, Md., 5 miles, connecting there with the Frederick & Middletown R. R. Westinghouse, Church, [illegible] & Co., of New York, are the Engrs. The Jefferson & Braddock Heights Ry. Co. has been incorporated to build a line to connect the two points named in the title. The incorporators are J. Roger McSherry, James [illegible] Ingram, Frank H. Callaway, Robert P. G[illegible]m, Thomas H. Haller, Emory L. Coblentz and Richard P. Ross.

CHARLESTON, S. C.—We are advised by W. A. Carlisle, Ch. Engr. Charleston & Summerville Electric Ry. Co., Gainesville, Ga., that that company will do its own construction work on proposed line between the two cities named, a distance of 22 miles. Surveys are made and right-of-way secured. Previously noted.

ORANGEBURG, S. C.—Sol Kohn, Secy. of the Orangeburg Business Men's League, confirms the report that a commission has been secured for the South Carolina Service Corporation, which proposes to build an electric railway from Ferguson, via Orangeburg, to North, S. C., and to operate steamboats on the Santee River. The company has not yet been organized, but a charter will be asked for on Aug. 7. Noted on July 5.

HATTIESBURG, MISS.—The Hattiesburg & Mammoth Springs Electric Ry. Co. has organized by electing the following directors: J. R. S. Pitts, Pres.; S. O. Pitts, assistant to the president; J. P. Wetherbee, Vice-Pres. and Genl. Mgr.; E. F. Ballard, Treas., and A. S. Pitts. Capital, $100,000. Engineers to be employed to make survey for the line, which will be about 4 miles long.

MEMPHIS, TENN.—H. E. Croft, 552 Randolph Bldg., Memphis, Vice-Pres. of the Lake View Traction Co., informs us that contracts will be let when final surveys are made, probably in 60 days' time. Preliminary surveys have been made for the proposed electric railway from Memphis to Clarksdale, Miss. There will be 77 miles of single track and 15 miles of double track. Right-of-way of 70% is secured. Capital is not yet obtained. The line will not exceed a 1% grade. W. E. Willett is Gen. Mgr., and A. B. Cutter is Ch. Engr., at Memphis.

BAXTER, TENN.—J. B. Gentry, Pres. of the Baxter & Gainesboro Electric R. R. & Power Co., states that the County Court on July 2 decided adversely on the proposition that Jackson County contribute $50,000 toward the water-power development and the construction of this railroad. The project will lay over until the Court meets again in October. An engineer has not yet been employed. Directors are J. B. Gentry, Pres.; R. B. Gentry, Treas., Baxter, Tenn.; W. H. Johnston, Secy., Silver Point, Tenn. Line to be about 18 miles long.

YOUNGSTOWN, OHIO. — The Poland, Boardman & Canfield Ry. Co. has been formed by David Tod, Thomas L. Robinson, F. R. Chislett, S. J. Dille and Thomas H. Jenkins. The company proposes to build a line from Poland and Boardman to Canfield. The men interested are at the head of the Youngstown & Southern Ry. The road will cross that line at Boardman. It will give Poland, Canfield and several towns connection with Youngstown.

NORWALK, OHIO.—We are officially advised that the Riggs & Sherman Co., Toledo, Ohio, Engrs., are now running surveys for the line of the Cleveland, Van Wert & Indiana Ry., from Norwalk, Ohio, to Bluffton, Ind., 150 miles. Right-of-way is partly secured. The motive power is to be electricity or gasoline.

FREMONT, OHIO.—The Sandusky County Commissioners have declared forfeited the franchises granted some years ago to the Kerlin Brothers Co., of Toledo, for a line from Fremont to Tiffin. Work was to have started June 1, 1902, but the road was never completed. According to a press report, "this clears the way for the Lake Shore Electric Co., which is planning to build over practically the same route."

FLINT, MICH.—The Detroit, Flint River & Saginaw Valley Ry. Co. and the Fenton, Long Lake & Flint Ry. Co. have been incorporated. The former incorporation will build a railroad from Saginaw and Bay City by way of Flint and over the lines of the Fenton, Long Lake & Flint Ry. Co. to Detroit, making a total of over 112 miles of railway. The latter will build a railroad from Fenton to Flint via Long Lake. The officers of the companies are J. L. Hudson, of Detroit, Pres.; W. F. Davidson, Vice-Pres. and Mgr.; D. D. Aiken, Vice-Pres.; A. C. Bishop, Treas., and D. D. Black, Secy.

BOONE, IOWA.—At a recent meeting of the stockholders of the Des Moines, Fort Dodge & Southern Railway Co., held in this city, an amendment to the articles of incorporation was adopted, increasing the capital stock from $2,500 to $1,075,000. This company is building the extensions from [illegible] to Fort Dodge, and from Kelley to Des Moines for the Newton & Northwestern Ry., which will be operated by electricity. The contracts for the grading of the line from Keeley to Des Moines were let some time ago, and about eight miles of the 28 miles have been graded, it is reported, and the work of laying the steel started. The work of grading the section from Lanyon to Fort Dodge is also under way, as well as the work of constructing the bridge over the Des Moines River, south of Fort Dodge. The contractors state that the grading will be completed by Oct. 1.

IOWA CITY, IOWA.—The Iowa City, Montezuma & Des Moines Ry. Co. has been organized to construct an electric railway from Iowa City to Montezuma, via Williamsburg, about 60 miles long. The new line will pass through an agricultural section. G. W. Ball is Pres., of Iowa City; J. W. Carr, Montezuma, Vice-Pres.; W. J. Welch, Iowa City, Secy.; C. R. Clark, Montezuma, Treas. Capital stock, $10,000.

BUTTE, MONT.—The County Commissioners have granted a franchise to the Butte Electric Ry. Co. for a street car line to Columbia Gardens. Work is under way. J. R. Wharton is Gen. Mgr., at Butte.

FORT SMITH, ARK.—The City Council has granted a franchise for an electric railway to Wharton Carnall and S. A. Williams, who will construct an electric railway to connect Fort Smith with various coal mining towns in the western part of Arkansas.

CHEYENNE, OKLA.—The Clinton, Cheyenne & Canadian Interurban R. R. Co., recently chartered, will build an electric line from Clinton, Okla., to Canadian, Tex., 150 miles, with a branch from Cheyenne to Mangum, Okla., 70 miles. Bids for preliminary survey and estimates will be received immediately. C. S. Gilkerson is Pres.; L. L. Collins, Vice-Pres.; R. V. Converse, Secy. Company's capital stock is $1,000,000.

NEWKIRK, OKLA.—The Newkirk, Tonkawa & Southern Electric Ry. Co. has been chartered. The line will extend from Newkirk, Kay County, to Oklahoma City. The road will pass through the counties of Kay, Noble, Logan and Oklahoma. The capital is $1,500,000, and the directors are Thomas S. Smith, Newkirk; M. P. Brown, J. S. Kerfoot, H. E. Elder, Oklahoma City; E. G. Warfield, New York City.

FORT COLLINS, COLO.—The Denver & Interurban R. R. Co. has been granted a franchise in this city which provides for construction of and operation of a street railroad system in Fort Collins. The company, according to the ordinance, is to have three miles in operation before Jan. 1, 1908, and is to have one or more miles of line each year thereafter in operation until tracks have been laid on all the streets named in the franchise, covering a distance of about 15 miles, or forfeit $10,000. The officers of the Denver & Interurban R. R. Co. are as follows: A. D. Parker, Pres.; T. S. McMurray, Vice-Pres.; H. W. Cowan, Ch. Engr. These officers are all connected with the Colorado & Southern R. R. Co.

BURBANK, CAL.—L. C. Brand, of Los Angeles, is interested in a project to build an electric railway connecting Burbank and North Glendale. Right-of-way is requested and people of these two places are asked to subscribe a bonus of $40,000. Mr. Brand has deposited a $10,000 check with the Merchants' National Bank, of Los Angeles, as a sign of good faith. Considerable interest is being shown over the plan.

SAN FRANCISCO, CAL.—The San Francisco, Vallejo & Napa Valley R. R. Co., which was recently incorporated, will operate an electric railway from San Francisco to Vallejo by ferry, thence by cars to Napa, through Napa to St. Helena and Calistoga, and will also have spurs connecting with other railroads in Lake and Sonoma Counties. The length of the main line will be 72 miles. The capital stock of the company is $1,500,000. The directors are as follows: W. F. Botsford, of Los Angeles; Z. T. Hatch, of Oakland; L. J. Perry and J. T. York, of Napa; C. N. Hatch, of Vallejo. The new company is an enlargement and change of the Vallejo, Benicia & Napa Valley Railroad Co., to provide for extending the electric railroad from Napa up to St. Helena and Calistoga. L. J. Perry, Mgr., at Napa, is reported to have stated that the work of grading for the extension would be commenced soon. The company expects to have the track laid to Calistoga by Jan. 1, 1907.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MANCHESTER, N. H.—The New Hampshire Railroad Commissioners have granted the Manchester Heat & Power Co. authority to increase its capital stock by $350,000. The increase of stock is for the purpose of covering the cost of acquiring the Goffe's Falls, Litchfield & Hudson Electric Ry., putting in a double track between the city proper and Goffe's Falls, and for installing additional equipment at Kelly's Falls and Garvin's Falls plants, and for the general station on Brook St.

MARSHFIELD, VT.—The Mollys Falls Electric Light & Power Co. is making extensive improvements to its lighting plant, and will add six large transformers to its equipment, of which three will be installed in the new station, which is being built in Plainfield, the others will be put in the power station in this place.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 26, for constructing the generating plant and electric plant for the Bronx Borough Court House at the public square.

NEW YORK, N. Y.—We are officially advised the ABBOT-GAMBLE CO., 32 Broadway, has been awarded a contract by the Edison Electric Illuminating Co., 358 Pearl St., Brooklyn, to construct underground conduits, at $25,000.

The STANLEY ELECTRIC MFG. CO. has been awarded the contract to furnish the motors, to be used in connection with the installation of the high pressure fire service in Brooklyn. The contract represents an expenditure of about $60,000.

MIDDLETOWN, N. Y.—The West Branch Light & Power Co. has been granted a certificate of authority by the Commission of Gas and Electricity to supply lights in the villages of South Kortright, Hobart and Stamford, Delaware County. Bonds to the amount of $45,000 may be issued by the company, and capital stock to the amount of $5,000. The company also received permission to purchase the stock of the Stamford Electric Light Co.

POTSDAM, N. Y.—Potsdam has voted to bond the village for $24,000 for the construction of a municipal lighting plant to supply street lights only.

ORANGE, N. J.—Frederick T. Crane, City Engr. of Orange, N. J., has completed work on the maps of the city showing the location of electric lights to be run in connection with the city electric light and power works. The new plant is designed to supply current to private consumers and power to run the pumping machinery at the sewer and water-works and light the streets, all at a figure considerably under the amount charged for years by the Public Service Corporation.

SHILLINGTON, PA.—A $1,000,000 electric plant will be erected at Cumru by the Metropolitan Electric Co., of Reading.

PHILADELPHIA, PA.—Three bids were received July 14 for underground electric lighting cables at the League Island Navy Yard, the lowest being that of John A. Roebling's Sons Co., 612 South Broad St., Trenton, N. J. The amount bid on Item 1 was $15,423.

HYATTSVILLE, MD.—Bids are asked until noon, July 28, by Joseph R. Owens, Mayor, for constructing an electric lighting plant and the linework at Hyattsville. C. L. Reeder is Consult. Engr., Equitable Bldg., Baltimore, Md. (Advertised Engineering News.)

NORFOLK, VA.—SCHOFIELD CONSTRUCTION CO., Philadelphia, Pa., has contract, at $190,000, for construction of proposed power house for Norfolk & Portsmouth Traction Co.; 168 × 157 ft., of heavy brick, concrete construction and heavy foundations; two stacks of 14-ft. diameter. Estimated cost, $25,000.

RICHMOND, VA.—Robert W. Hunt & Co., 66 Broadway, New York, have been appointed engineers for the repair work to be done on the gas works at Richmond, Va. The work contemplated will involve about $500,000.

BENWOOD, W. VA.—Members of the Benwood Council are considering the proposition of erecting a municipal electric light plant. It is purposed to secure a site and install a system at a cost of $10,000.

NEWTON, N. C.—It is reported that the City will erect an electric light plant. John P. Yount is Mayor.

ROANOKE RAPIDS, N. C.—See under Water Supply and Irrigation.

LAURENS, S. C.—Reedy River Power Co., N. B. Dial, Pres., organized for the development of the water-power of the Reedy River at Boyd's Mill, 12 miles from Laurens, has been granted a franchise by the City for the transmission of power by electricity to Laurens for light and power purposes. The company has a capital stock of $50,000.

ANNISTON, ALA.—Asbury Electric Co. has been incorporated, with $10,000 capital stock, for the development of the water-power of the Coosa River at Lock 2, near Ten Island Shoals, and the establishment of electric plant for transmission of electricity to Anniston. Bridgham Curtis is Pres.; W. F. Johnston, Vice-Pres., and Millard C. Heemston, Secy-Treas.

SHEFFIELD, ALA.—The Sheffield Co. is making preparations to install a 1,500-HP. turbine engine in its electrical power plant. J. B. McClary is Mgr.

MOBILE, ALA.—S. H. Hinckley, Consult. Engr., Mobile, estimates the cost of constructing a municipal electric lighting plant for Mobile at $75,000. P. J. Lyons is Mayor.

GADSDEN, ALA.—Alabama City, Gadsden & Attalla Ry. Co. has let contract for machinery to be installed in power station at a cost of $75,000 as follows: For electrical machinery and steam turbines to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa.; for pumps and condensers to HENRY R. WORTHINGTON, 114 Liberty St., New York, N. Y. Contracts for the erection of buildings on Fifth St. will shortly be let.

McEWEN, TENN.—L. D. Baker is reported as arranging for the establishment of 1,000-light-electric plant.

LOUDON, TENN.—It is reported that M. R. Goans will install an electric plant at Loudon.

MEMPHIS, TENN.—The LaClede Gas Co., of St. Louis, Mo., has purchased a site at a cost of $25,000 and will erect a $60,000 electric light plant in Memphis.

KNOXVILLE, TENN.—The Board of Aldermen has decided to install a new lighting system at Knoxville to replace the present antiquated system.

MAYFIELD, KY.—The Mayfield Water & Light Co. has plans completed for a concrete building, 90 × 105 ft., making a new engine room, 44 × 60 ft., in which it will install a 500-KW. direct-connected 2,300-volt, 60-cycle, 2-phase alternator. The last half of a 400-HP. water tube boiler is now being erected, and the two horizontal tubulars will be replaced with a 750-HP. water tube battery. W. E. Playter, Ch. Engr., will have charge of the work.

LOWELLVILLE, OHIO.—Bids are asked until Aug. 2 by the Board of Electric Light Trustees for installing an electric light plant.

FORT WAYNE, IND.—Bids are asked until July 25, by Albert E. Carroll, Supt., for installing a heating plant in the Custodian's College for Boys, and for plumbing in the same. Wing & Mahurin, Pixley-Long Bldg., Fort Wayne, are Archs.

HART, MICH.—The Pere Marquette Light & Power Co. has decided to construct a second power dam on Pere Marquette River, about 3½ miles below the dam now building. It will give about 50-ft. head and have a length of 350 ft. J. N. Cotton is Pres.

DETROIT, MICH.—At a meeting of the Detroit Public Lighting Commission, Clifford Elliott was elected Pres; Marvin M. Stanton, Vice-Pres.; Frank T. Bowler, Secy., and William M. Daly, Supt. Some $40,000 worth of contracts were given out. The WESTERN ELECTRIC CO. secured the contract for 900 arc lamps at $16,500, and the NATIONAL CARBON CO. will supply carbons to the amount of $10,135.

EDENVILLE, MICH.—Frank I. Wixom, of Detroit, and his associates, have been granted permission by the Midland Board of Supervisors to construct a power dam on the Tittabawassee River, in Edenville. Frank I. Wixom says it is proposed to spend between $800,000 and $1,000,000 to generate electricity. The plant is to be completed by Dec. 1, 1908. They propose to build another dam in Jerome as soon as the first one is in successful operation.

ROCHELLE, ILL.—Bids are asked until 7.30 p. m., July 26, by the City of Rochelle, Thomas M. Keegan, Clk., for constructing a power house and a reservoir of 250,000 gallons capacity. (Advertised Engineering News.)

SAUK RAPIDS, MINN.—A. G. Whitney, Engr., St. Cloud, Minn., has plans prepared for a $350,000 power plant for the Sauk Rapids Power Co.

OTTAWA, KANS.—Specifications for electric light and power plant, to be built at Ottawa, are on file at the office of Engineering News, New York. Bids are asked until July 20.

GARDEN CITY, KANS.—THE D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., has contract to install an electric plant in connection with the Garden City irrigation project in Kansas.

BELOIT, KANS.—A. T. RODGERS has been awarded the contract for the electric lighting of the new state building at the Industrial School.

BISMARCK, N. DAK.—The Hughes Electric Co. will enlarge its power plant here, and will install two additional boilers.

GRAND FORKS, N. DAK.—DINNIE BROS., of Grand Forks, have secured the contract for constructing a new power house for the Grand Forks Gas & Electric Co. The cost, with machinery, will be about $40,000.

WILLISTON, N. DAK.—Bids are asked until 10 a. m., Sept. 10, by the U. S. Reclamation Service, for installing three transformers and eight motor-driven pumping units, in pumping stations near Buford, N. Dak. H. A. Storrs is Electrical Engr., Williston. (Advertised Engineering News.)

LA BELLE, MO.—It is reported that it is proposed to rebuild the electric light plant, recently burned, at a probable cost of $5,000. C. R. Ford, of La Belle, is the Engr.; H. S. Smith is Mayor.

ST. LOUIS, MO.—The Anheuser-Busch Brewing Association is contemplating the erection of a new power plant to be located at 3000 South Second St. The power-house will be two stories high and will cost $30,000.

BEAUMONT, TEX.—The Beaumont Traction Co. will install new engines, and make other improvements in its power plant.

WAXAHACHIE, TEX.—The City Council is reported to have granted Geo. W. Alt, of Chicago, Ill., a franchise for the construction and operation of a gas plant having a daily capacity of 100,000 cu. ft.

PALESTINE, TEX.—The Palestine Electric Light Co. is making preparations for installing the new arc lighting system, called for in the franchise granted recently.

PONCA, OKLA.—M. B. Mumford, of Kansas City, Mo., has purchased an interest in the electric light plant of this place. The new company contemplate improvements and additions to the plant which will cost about $5,000.

MANITOU, COLO.—William A. Otis and associates, including G. A. Taff, Pres. of the Pike's Peak Hydro-Electric Co., announce that they will soon begin the erection of a new electric power plant at Manitou to cost $300,000. In addition they propose to expend $200,000 on pipe lines and reservoirs and $500,000 in general improvements.

PORTLAND, ORE.—The contract for erecting the substation of the Portland General Electric Co., at Knott and Williams Ave., has been awarded to FREIBERG BROS., for $22,000.

TOLO, ORE.—The Condor Water & Power Co. is contemplating extending its transmission lines down the valley as far as Eugene. The company is now supplying nearly 2,000 HP. in southern Oregon towns and mines.

ASHLAND, ORE.—The Ashland Electric Power & Light Co. is preparing to make extensive improvements to its plant in this city. The company also contemplates the rebuilding of the city lighting system.

NEWBERG, ORE.—We have been officially advised that all the machinery for the newly organized Yamhill Electric Co. has been contracted for, except that to furnish power and light. The estimated cost of the work is $10,000. C. J. Edwards is Pres. and Des. Engr. Noted June 28.

WHITE SALMON, WASH.—The White Salmon Water, Light & Power Co., of White Salmon, has been incorporated with a capital of $75,000 by J. C. McInnes and A. H. Jewett.

SPOKANE, WASH.—The Inland Empire Railway Co. has started development of its power site at Nine Mile Bridge, on the Spokane River, about nine miles below town. Sanderson & Porter, 52 William St., New York, have been engaged as designing and constructing engineers and their representatives are in the city completing the plans for the undertaking of the work. It is announced by the company that they intend to employ local labor and, as far as possible, to purchase material through houses in this city.

RENO, NEV.—The power plant of the Reno Light, Power & Water Co., situated on the Truckee River, was destroyed by fire on June 25, causing a loss of $50,000. The plant will be rebuilt at once.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Following are the bids received July 9, by James W. Stevenson, Comr. of Bridges, for constructing the Pelham Bridge over Eastchester Bay, in Pelham Bay Park, Boro of the Bronx: Lawlor Bros. Construction Co., 13 Park Row, $318,653; Williams Engineering & Contracting Co., 13 Park Row, $253,534; North Eastern Construction Co., 949 Broadway, $273,-032; W. A. Eagerman, $300,398; Goodwin Construction Co., 60 Wall St., Naughton & Co., 290 Broadway, $288,764.

MONTROSE, PA.—Bids are asked until July 25 by the County Commissioners, W. H. Foster, Clk., at Montrose, for constructing substructure and superstructure of bridge in Dimock Township over Meshoppen Creek; superstructure to be steel truss design 39 ft. in length; and for bridge in New Milford Borough, across Stoney or Brandt Creek, superstructure to be steel beam design, 24 ft. long.

CLARKS SUMMIT, PA.—The Delaware, Lackawanna & Western R. R. Co. has plans prepared for construction of a large viaduct at Clark's Summit, which will do away with the grade crossing there, which is a most dangerous one. The yard at that place is to be greatly enlarged.

FORTRESS MONROE, VA.—Bids in triplicate are asked until noon, Aug. 11, by Capt. R. H. C. Kelton, Constr. Q. M., for reconstruction of bridges leading into Fort Monroe. (Advertised, Engineering News.)

NORFOLK, VA.—The Harbor Board has granted permission to the Elizabeth River R. R. Co. to build bridge over New Mill Creek, noted June 28. The bridge will have double tracks and two open draws, each 80 ft. wide. Edward A. Buell is Pres.

MACON, GA.—The viaduct to be constructed across Bay St. will be built by the Central of Georgia Ry., H. M. Steele, Savannah, Ga., Ch. Engr., and the Georgia Southern & Florida Ry., J. J. Gaillard, Macon, Ga., Ch. Engr.

LELAND, LA.—Bids are asked until July 23, by the Police Jury, J. C. Hardin, Clk., for constructing steel bridge across Island Bayou.

PADUCAH, KY.—A $20,000 bridge is to be constructed here to replace the Fourth St. bridge. Harry Hank is Chn. Joint Pub. Improve. Com.

NEW PHILADELPHIA, OHIO.—Bids are asked until July 28, by the County Commissioners for constructing two steel bridges, one span 110 ft., the other span 70 ft., both 18 ft. wide.

SIDNEY, OHIO.—Bids are asked until July 30, by J. C. Rosser, Audr. of Shelby County, for construction of a 2-span high-truss bridge to carry single-track, each span 125 ft. long with an 18-ft. roadway, over the Great Miami River; also for the construction of the substructure, consisting of one abutment and superstructure for a one-span, high-truss, single-track bridge 80-ft. long, 16-ft. roadway over the Miami and Erie Canal.

JEFFERSON, OHIO.—Bids are asked until 1 p. m., Aug. 6, by the Auditor Ashtabula County, for constructing concrete masonry abutments and driving piles on the Grand River, on the road running from Rome Center.

TIPTON, IND.—Bids are asked until 2 p. m., Aug. 6, by the Commissioners of Tipton County for constructing two bridges in Jefferson Township.

RICHMOND, IND.—Bids are to be readvertised for the construction of the proposed bridge at Trotters Ford, in New Garden Township.

VINCENNES, IND.—Bids are asked until 2 p. m., Aug. 7, by the Commissioners of Knox County, John T. Scott, Audr., for erecting three steel bridges.

MORRIS, ILL.—City Council has accepted a petition to widen the canal bridge at Calhoun St., and has instructed Street and Alley Committee to advertise for bids for a bridge.

STERLING, ILL.—The contract for the erection of a new bridge across Elkhorn Creek on the Seefield Road and repairing the two other bridges across stream on the same road has been let to the CLINTON BRIDGE & IRON WORKS, the contract price for the same being $6,150.

CHICAGO, ILL.—We are officially advised that the contract for the Deep Run Viaduct has been awarded to the JACKSON & CORBETT BRIDGE & STEEL WORKS, 1132 The Rookery. The contract for transmission line poles has just been awarded to the AERMOTOR CO., Campbell Ave. The bids for dredging the river were rejected as too high, and ordered readvertised.

DUBUQUE, IOWA.—The Dubuque & Wisconsin Bridge Co. proposes to erect and add to the east end of the bridge two new steel spans 17 ft. wide by 165 ft. in length. It will necessitate the building of two concrete cylinder piers. The construction must be completed March 10, 1907.

DES MOINES, IOWA.—A new bridge over the Des Moines River to replace the present Locust St. bridge will be built next spring. Bids will be advertised for soon. George Dobson is City Engr.

LYONS, IOWA.—Bids are asked until noon, Aug. 4, by J. A. Nottinger, Secy. Lyons & Fulton Bridge Co., Lyons, for constructing steel bridge approach for highway and street car service at Lyons. Bids were advertised to be received July 25, but an extension of time has been made. Noted in issue of July 12. (Advertised Engineering News.)

IOLA, KANS.—We are officially advised that the time of receivng bids for eight proposed bids in Allen County, as noted in issue of June 28, has been indefinitely postponed. J. W. Kelso is County Clk.

TOPEKA, KANS.—Bids are asked until Aug. 13, by the Board of Shawnee County Commissioners, for the construction of two steel bridges across the Kansas River, one to be located between Rossville and Willard and one between Silver Lake and Valencia. Estimated cost, $20,000 each. M. Snattinger is County Clk.

HERMANN, MO.—Congress has passed a bill authorizing the County Court of Gasconade County to construct a steel bridge.

BUTLER, MO.—Bids are asked until July 24, at the Court House, for constructing the following bridges: Two bridges, each 140-ft. span; nine bridges, each of 100-ft. span; three bridges, each of 50-ft. span, and two bridges, each of 40-ft. span. John F. Herrell is Clk.

ST. LOUIS, MO.—The Municipal Bridge & Terminal Commission, St. Louis, has recommended that a new four-track cantilever bridge be erected across the Mississippi River at Poplar St., exclusively for railroad service, and that the City should acquire the Eads bridge and use that structure as a central public highway connecting with passenger and freight subways for electric lines or cabs and wagons.

The St. Louis & San Francisco R. R. Co. will build a viaduct costing about $37,000 across their tracks at Flyer Ave., this city. J. F. Hinckley is Ch. Engr.

MUSKOGEE, IND. T.—Alex. H. Tombly, of New York, an engineer sent here by the Eastern representatives of the Muskogee Electric Traction Co. for the purpose of investigating the feasibility of the proposed Grand River dam, is reported to have estimated the cost of a steel bridge across the Arkansas River, preparatory to putting the electric line into Fort Gibson, and many other improvements to the line, at a cost of $300,000. The bridge alone will cost $100,000.

CHANDLER, OKLA.—Bids are asked until July 28, by J. E. Rea, Clk. of Lincoln County, for construction of a 45-ft. span bridge of steel; also for the construction of a 36-ft. span bridge.

EL PASO, TEX.—It is stated that arrangements are being completed for the construction of proposed viaduct for the Galveston, Harrisburg & San Antonio Ry. Co., W. G. Van Vleck, Mgr., Houston, and the El Paso & Southwestern R. R. Co., H. J. Simmons, El Paso, Tex., Gen. Mgr. The plans call for a structure to cost $80,000.

GLENWOOD SPRINGS, COLO.—Bids are asked, until Aug. 1, by T. W. Jaycox, State Engr., for constructing a bridge across Canon Creek, eight miles west of Glenwood Springs.

SPOKANE, WASH.—The Oregon Railroad & Navigation Co. is reported to have let to M'CREARY & WILLARD, Spokane, the contract for the erection of a number of bridges, including the following: A steel bridge across the Hood River, a steel bridge 710 ft. long across Sandy River, near Troutdale; a steel bridge 420 ft. long across the Umatilla River, at Umatilla; a 300-ft. steel bridge across the Des Chutes River, at Des Chutes; a steel bridge 175 ft. in length across the Walla Walla River, at Wallula; a 100-ft. steel bridge across the Burnt River near Huntington.

CONCONULLY, WASH.—Bids are asked until Aug. 6 by the Okanogan County Commissioners, for constructing two truss combination bridges on Roads Nos. 10 and 12, to cost about $7,000.

PORTLAND, ORE.—Regarding the receipt of bids on June 8, for steel bridge across Sullivan Gulch, on Grand Ave., D. W. Taylor, City Engr., writes: "The Executive Board finally decided to reject all bids and recommended that the City Engineer change the plans so as to provide for reinforced concrete sidewalks instead of wood, and reinforced concrete foundation for roadway with a covering of asphalt, bitulithic or bituminous macadam, instead of the carbolineum treated wood block pavement. Also to omit a large portion, if not all the embankment in the gulch around the piling. With these changes it was believed a better bridge could be secured for about the same cost as the bridge originally provided for." The lowest bid was that of the Pacific Engineering Co., Portland, at $49,510.

MONTREAL, QUE.—The CANADIAN BRIDGE CO., of Windsor, Ont., has secured contract to build a bridge connecting Victoria Pier with the rear of Place Vizier Station, and spanning over the streets along the river front.

VARNEY, ONT.—Bids are asked until July 28, by J. Allen, for building a truss bridge.

BATTLEFORD, SASK.—Bids are asked until 4:30 p. m., Aug. 13, by F. J. Robinson, Deputy Comr. of Public Works, Regina, for constructing a traffic bridge over the North Saskatchewan River, at Battleford. We have received a copy of a letter, sent July 7, to various bridge building companies, calling for quotations for the supply of steel for the proposed bridge. There will be five 250-ft. and three 200-ft. steel highway through truss spans, stresses calculated according to Cooper's Specifications for Highway and Electric Ry. Bridges, Class B., with a clear width of roadway of 20 ft. The trusses are to carry a future street car line. Plans and the letter above mentioned are on file at the office of Engineering News, New York, and the specifications, which have necessarily been delayed, will also be on file as soon as received.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BROOKLINE, MASS.—B. FRANK CARROLL, of Brookline, has the contract to build a municipal gymnasium, at about $120,000. F. T. Untersee, 49 Federal St., Boston, is Arch.

BEVERLY, MASS.—S. J. Connelly, Arch., has prepared plans for a dwelling and stable for J. T. Morris, 3d, of Boston. The buildings will include modern improvements and cost about $75,000. The general contract has been let to CONNELLY BROS., Beverly, of which firm the architect is a member.

BOSTON, MASS.—I. A. and A. C. Ratshesky will erect a 5-story store and office building at Washington and Bromfield Sts.

HAVERHILL, MASS.—C. Willis Damon, Arch., of Haverhill, has been selected to draw plans for a $250,000 high school and will begin work at once.

NEW HAVEN, CONN.—It is reported that the New York, New Haven & Hartford R. R. Co. will build a new passenger station here at once. It is to cost $500,000. C. S. Mellen, New Haven, is Pres.

NEW YORK, N. Y.—The Board of Aldermen has appropriated $2,000,000 for building new police stations and $628,000 for a new training school for nurses at Bellevue Hospital.

JAMES STEWART & CO., 135 Broadway, have been awarded the general contract for the warehouse, which Adolphus Busch, 24 West St., will erect at Eleventh Ave. and 36th St., from plans by Buchman & Fox, Archs., 11 East 59th St., and Widman & Walsh, Archs., St. Louis, Mo.

Fraunce's Tavern, at Broad and Pearl Sts., will be remodeled at a cost of $50,000.

Bids are asked until 10 a. m., July 24, by the Department of Health, for the erection of a morgue building at Kingston Ave. and Fenimore St., Brooklyn. Thos. Darlington, M. D., is Pres.

The Consolidated Exchange, now located at Broadway and Exchange Place, has secured a site at Broad and Beaver Sts., and will erect a new building at once.

Plans have been filed for the following buildings: Twelve-story loft building, 39 and 41 West 38th St., B. S. Castles, owner; Gordon, Tracy & Swartwout, 244 Fifth Ave., are Archs.; cost, $150,000. Seven-story brick dormitory for Barnard College, Broadway and 119th St.; C. A. Rich, 320 Fifth Ave., Arch.; cost, $100,000.

ELMIRA, N. Y.—Bids are asked until noon, July 30, by Dr. Charles F. Howard, Pres. Bd. Mgrs., New York State Reformatory, Elmira, for erecting the structural steel work for the Trades School building at the Reformatory. (Advertised, Engineering News.)

POUGHKEEPSIE, N. Y.—Contract for the construction of two buildings at the Poughkeepsie State Hospital has been awarded to the PETER KEELER BUILDING CO., of Albany.

WATERVLIET, N. Y.—It is reported that D. McCarthy & Sons intend to rebuild their ice houses, recently destroyed by fire, and desire information regarding such buildings constructed of concrete.

SCHENECTADY, N. Y.—Bids are asked until 2 p. m., July 19, by the Board of Contract and Supply, for the erection of three school buildings. C. O. Dunning is Clk.

ALBANY, N. Y.—Bids are asked until 2 p. m., July 30, by the trustees of Public Buildings for remodeling the State Capitol at Albany. G. L. Heins is State Arch.

BRYN MAWR, PA.—J. A. Nugent, pastor of the Church of Good Counsel, has announced that the church will build a $50,000 parochial school.

WOODVILLE, PA.—E. J. Carlisle & Co., Archs., Westinghouse Bldg., Pittsburg, have prepared plans and have taken bids for a county hospital for the Board of Commissioners of Allegheny County, to cost $175,000.

CALIFORNIA, PA. — CALDWELL & DRAKE, Columbus, Ind., have the contract for a 3-story brick dormitory and dining hall for the California State Normal School. Cost, $60,000. J. C. Fulton, Uniontown, is Arch.

PITTSBURG, PA.—Thomas Hannah, Arch., Diamond National Bank Bldg., is preparing plans for a 24-story skyscraper to be erected in Fifth Ave. below Smithfield St. Cost, $2,000,000. The company which proposes to erect the building is headed by A. E. Anderson, 309 Frick Bldg.

PHILADELPHIA, PA.—St. Francis Xavier's Church, which was recently destroyed by fire, will be rebuilt. Edward F. Durang, 1200 Chestnut St., is Arch.

JOHN R. WIGGINS will erect a 6-story brick office building at Tenth and Chestnut Sts. for the Philadelphia Electric Co.; cost, $300,000. John T. Windrim, 1107 Walnut St., is Arch.

LYNCH BROS. have the contract for the erecting of the new elementary school at Green and Carpenter Sts., at $92,000.

ROYDHOUSE, AREY & CO. have been awarded a contract for a $100,000 addition to the office building of the Baldwin Locomotive Works, at Broad and Spring Garden Sts. The plans by Wilson, Harris & Richards, Archs., provide for a 5-story structure, 50 × 100 ft., extending south of the present office building to Hamilton St. The old building will also have an additional story placed on it.

The Philadelphia Rapid Transit Co., Eighth and Dauphin Sts., has invited bids for the erection of a car barn at 26th St. and Allegheny Ave. Brick, concrete and steel; 370 × 500 ft.

WEST CHESTER, PA.—WM. H. BURNS has been awarded the contract for a 2-story addition to the County Hospital, at about $50,000.

PHILADELPHIA, PA.—Bids are asked by Edgar Seeler, Arch., Real Estate Trust Bldg., until July 23, for a 6-story office and newspaper publishing building at Juniper and Filbert Sts., for the Bulletin Publishing Co. Estimated cost is $300,000.

BALTIMORE, MD.—J. Henry Stirhmeyr, Equitable Bldg., and others, have formed a syndicate and have purchased the Edmondson estate, bounded by Payson, Pulaski, Saratoga, Mulberry and Franklin Sts. and Edmondson Ave., and will erect thereon 1,700 dwellings. Two stories, 15 × 50 ft., brick and stone, baths, electric and gas light, gas ranges, etc., at a cost of $1,750,000.

WASHINGTON D. C.—Lewis Hoppenmaier, 221 Tenth St., N. W., is inviting bids for the erection of a 4-story steel and concrete cold storage warehouse, 50 × 80 ft., to be erected at Tenth and C Sts.

WASHINGTON, D. C.—The Washington Theater Co., 1328 New York Ave., will have plans prepared by McElfatrick & Son, Archs., 1402 Broadway, New York, for a theater and office building at 12th St. and Pennsylvania Ave. Estimated cost is $100,000.

CHARLESTON, W. VA.—Plans have been prepared and bids will be received by Elzner & Anderson, Archs., 136 Ingalls Bldg., Cincinnati, Ohio, for a 7-story store and office building for Coyle & Richardson, Charleston. Cost, $150,000.

HUNTINGTON, W. VA.—Rabenstein & Warne, Archs., Charleston, W. Va., have drawn plans for an Institutional church, to be built at Huntington. Will have a gymnasium, library, reading room, complete restaurant and a dining room.

WILMINGTON, N. C.—Henry E. Bonitz, Arch., I. O. O. F. Bldg., has prepared plans for a 4-story store and office building, 65 × 100 ft., for J. F. Garrell, to cost $55,000.

ATLANTA, GA.—The King Hardware Co. will erect a new business house here at a cost of $75,000.

ATLANTA, GA.—Capt. James W. English will erect eighteen brick business houses. Some will be three stories, some four, and others higher. All will be equipped with electric lights, sanitary plumbing, elevators and all other improvements. The investment will be about $250,000.

PENSACOLA, FLA.—The contract for the construction of the new city hall has been awarded to CHARLES H. TURNER, of Pensacola, at $69,474.

MOBILE, ALA.—An 8-story office building, to cost $300,000, will be erected here by Van Antwerp & Sons. George B. Rogers is Arch. and the INTERSTATE CONSTRUCTION CO., contractor.

MEMPHIS, TENN.—It is reported that the Equitable Life Insurance Co. will erect an office building at Main and Jefferson Sts. L. M. Weathers is Arch.

The SELDEN-BRECK CONSTRUCTION CO. has been awarded the contract to build two warehouses for the Memphis Warehouse Co., at about $400,000.

CHATTANOOGA, TENN.—It is reported that C. E. James, of this city, is planning the erection of a 10-story building at Broad and Eighth Sts., to cost $400,000.

FT. THOMAS, KY.—Werner & Adkins, Archs., Mitchell Bldg., Cincinnati, Ohio, have prepared plans and will soon take bids for a 3-story hotel and boiler house, 100 × 200 ft., to be erected at Ft. Thomas, for the Blue Grass Inn Co., C. Burkhardt, care Gibson House, Cincinnati, Mgr. Cost, $75,000.

AKRON, OHIO.—Charles Henry & Son, Archs., have prepared plans and are taking bids for a 6-story business and office building, 86 × 59 ft., for Long & Taylor, to cost $60,000.

CINCINNATI, OHIO.—Gustave W. Drach, Arch., has been retained to draw plans for an addition to the skyscraper office building which will be put up by the Fleischmann estate at Fourth and Plum Sts.

Plans have been prepared and bids will soon be received by Werner & Adkins, Archs., Mitchell Bldg., for a 10-story stone bank and office building, 40 × 130 ft., for the Second National Bank; cost, $250,000.

DAYTON, OHIO.—Charles Herby, Arch., has completed plans for a $70,000 apartment to be erected by Mrs. A. G. Feight at Bank and Third Sts.

BRAZIL, IND.—Bids are asked by the Board of School Trustees until 10 a. m., July 24, for a new high school building, one ward building and the addition of two rooms to another building. Wm. M. Zeller is Secy. Bradley & Allen, Fort Wayne, Ind., are Archs.

EVANSVILLE, IND.—KANZLER & SON have secured the contract for the construction of the New Vendome Hotel, at this city, at about $111,779. Frank J. Schlotter is Arch.

INDIANAPOLIS, IND. — HEINZMANN BROS., of Noblesville, have been awarded the contract for the erection of the building for the Deaf and Dumb Institute.

Frenzel Bros. have ordered plans prepared for a 16-story office building which will be erected at Washington and Merick Sts.

ADRIAN, MICH.—The city has voted $50,000 for a new high school, and $8,000 for a ward school.

DETROIT, MICH.—The Polish Club here, of which Ludwig L. Haduh is Pres., plans to erect a hall to cost $50,000.

CHICAGO, ILL.—John Sutcliffe, Arch., 218 La Salle St., has awarded the contract for a $125,000 church, at Hinman and Lee Sts., to J. H. JOHNSON, 145 La Salle St. G. C. Stewart is Rector.

NEENAH, WIS.—Plans are being drawn by Van Ryn & De Gelelke, Archs., for a new school building to cost $65,000.

AMES, IOWA.—Bids are asked by the Board of Trustees of the Iowa State College until 2 p. m., Aug. 10, for the erection of a 4-story stone building for the Agricultural Department at a cost of $300,000. Proudfoot & Bird, 712 Crocker Bldg., Des Moines, are Archs. Wm. J. Dixon is Chn. Bldg. Com.

DES MOINES, IOWA.—J. B. McGorrisk presented the lowest bid, at $63,000, for the construction of the 3-story chapel, 38 × 100 ft., a 3-story music hall, 45 × 96 ft., and an auditorium, 45 × 96 ft., for St. Joseph's Academy, on West Grand Ave. Smith & Wetherell are Archs. Mentioned on July 3.

MINNEAPOLIS, MINN.—The Hurty-Simons Hardware Co. will erect a warehouse at Fourth St. and Third Ave., to cost $160,000.

The Fraternal Order of Eagles here plan to erect a $60,000 lodge building.

E. S. Stebbins, Arch., 107 Oak Grove Ave., is preparing plans for a 3-story press brick and cut stone fireproof high school building to cost $50,000.

BRITTON, S. DAK.—Bids are asked until July 25 for the construction of the $60,000 Marshall County Court-house at this city. M. S. Woodard is County Audr. Bell & Detweiler, Northwestern Bldg., Minneapolis, Minn., are Archs.

OMAHA, NEBR.—Plans have [illegible]en completed by Fisher & Lawrie, Archs., f[illegible]-story steel store and office building for t[illegible] Real Estate Exchange Bldg. Co.

GALLATIN, MO.—Bids are [illegible]ed until 1 p. m., Aug. 27, by the County [illegible]erk of Daviess County, Mo., for the erec[illegible] of a courthouse. P. H. Weathers & C[illegible] 2930 Main St., Kansas City, Mo., are A[illegible]

CAPE GIRARDEAU, MO.—Ba[illegible]tt, Haynes & Barnett, Archs., Frisco Bld[illegible] St. Louis, are drawing plans for a 5-stor[illegible]fice building at Cape Girardeau. It will [illegible] fireproof, brick, stone and terra cotta a[illegible]ost about $115,000.

ST. LOUIS, MO.—A new centr[illegible] police station, to be located on 12th St., [illegible]osite City Hall, will be built at once. [illegible] plans of James A. Smith, Bldg. Comr., h[illegible] been approved.

LITTLE ROCK, ARK.—Contr[illegible] for the erection of a 5-story office build[illegible] at Main and Seventh Sts., has been awar[illegible] to GEO. W. DONAGHEY, of Conway, Ar[illegible] at about $80,000.

FORT WORTH, TEX.—The co[illegible]ct for a new building for the congrega[illegible]n of the First Methodist Church has been l[illegible] to C. W. FORBES, of Fort Worth, at abo[illegible] $100,000.

SAN ANTONIO, TEX.—Harvey L. Page, Arch., Moore Bldg., is preparing plans for an addition to the Hot Wells Hotel which will be built immediately at a cost of $250,000.

AUSTIN, TEX.—The Board of Regents of the State University have decided to erect a law building at a cost of about $60,000. G. W. Brackenridge, San Antonio, is Pres.

TEAGUE, TEX.—Contracts for the construction of a passenger depot, office buildings and machine shops for the Trinity & Brazos Valley R. R. Co., have been let to S. E. DENNING & CO., at about $100,000. S. N. Sweeney is Gen. Mgr.

DENVER, COLO.—Bids are asked until noon, Aug. 1, by the Library Commission, Public Library Bldg., for the construction of a library. F. R. Ross is Chn.

SEATTLE, WASH.—Work on four additional stories to be constructed on the new Hotel Savory is to be started immediately by Edward F. Sweeney. The work will cost $80,000.

Saunders & Lawton, Archs., are preparing plans for a warehouse to be erected for Crane & Co. It will cost $250,000.

SPOKANE, WASH.—The Home Telephone Co. will erect an office and exchange building to cost $60,000.

SAN FRANCISCO, CAL.—T. Patterson Ross & A. W. Burger, Archs., have plans ready for a furniture store, 137 × 137 ft., to be erected for the Brace-Hoyden Co., of St. Paul, Minn., at Golden Gate Ave. and Hyde St.

The plans for the United States Immigration Station, on Angel Island, as prepared by Walter Matthews, Arch., of Oakland, have been approved by Frank P. Sargent, Immigration Comr., and the station will be constructed at a cost of $200,000.

A corporation composed of members of the Finance Committee, together with Governor Pardee and Mayor Schmitz, having at its command $3,750,000 of relief funds, will proceed immediately to erect permanent houses for the shelter of the city's homeless.

Acting on the suggestion of Mayor Schmitz, the Board of Supervisors has accepted an offer made by Andrew McCreery for the use of a lot 275 × 275 ft., at Eighth and Mission Sts., and will immediately build a two-story frame building that will constitute a temporary city hall. The building will cost $150,000.

The American Biscuit Co. will build a 5-story reinforced concrete building on Battery St. and Broadway, at a cost of $300,000. Ralph Warner Hart is Arch.

Sullivan, Roa & Co. will erect stores and offices at a cost of $200,000, on the block bounded by Fillmore, Eddy and Turk Sts.

BOISE, IDAHO.—J. E. Tourtelotte & Co., Archs., have completed plans for the new capitol building, which will be erected at a cost of $1,000,000.

TONOPAH, NEV.—Curtis Holoworth, Arch., of Reno, has completed plans for a bank building which the Nevada State Bank & Trust Co. will erect at Tonopah at a cost of $100,000.

MONTREAL, QUE.—Edward & W. S. Maxwell, Archs., have completed plans for a new building which the Church of the Messiah will erect at a cost of $70,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 25, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for setting 6-in. hydrant service pipe, fire hydrants and appurtenances in various streets in Brooklyn. Also for laying water mains in Belmont and Fountain Aves., in Crescent St. and in the grounds of the New Lots pumping station. Also for installing superheaters at various pumping stations.

The bids received July 11, by William B. Ellison, Comr., on Contracts 1, 2 and 3, for laying water mains in the Boroughs of Manhattan and the Bronx are as follows: John Cornwell, Jr., 69 East 127th St., (1) $106,911, (2) $68,219, (3) $40,203; Norton & Dalton, 27 West 140th St., (1) $115,340, (2) $69,537; John J. Hart Co., 173d St. and Broadway, (1) $134,764; M. D'Ambra, 205th St. and Villa Ave., (1) $98,145, (2) $64,936, (3) $39,530; Atlanta Con. Co., 432 East 91st St., (1) $118,506; (2) $74,767, (3) $46,568; L. D. Gregory, 125th St. and First Ave., (2) $65,021, (3) $42,785; Wilton Construction Co., Williamsbridge, N. Y., (2) $67,178, (3) $41,662; Tuccillo & Co., 195 Grand St., (2) $65,042, (3) $41,567; Charles A. Parker, (2) and (3) informal.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 27, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for installing high pressure fire service, suction mains and appurtenances for salt water, for the pumping stations located at corner of Gansevoort and West Sts., and at corner of Oliver and South Sts.

NIAGARA FALLS, N. Y.—At a recent meeting of the Common Council the Fire and Water and the Finance Committees rendered a report in favor of the installation of a new electric pump in the city pumping station at a cost of $14,500. The Board of Estimate and Apportionment was authorized to issue water bonds to the extent of $14,500 to pay for the proposed improvement. No special election will be necessary.

LOCKPORT, N. Y.—The plans of the Lockport municipal water supply by Charles A. Hague, Consult. Engr., 52 Broadway, New York, have arrived and bids for work to cost $5[illegible] will be immediately called for. The specifications require that the work be done before January 1, 1908. The intake will be located 2,626 ft. into the Niagara River at a point near Gratwick. The 10,000,000 gallon electrical driven pumps will be used to send the water to Lockport, a distance of about 13 miles, through a 30-in. steel pipe, to a stand-pipe 25 ft. in diameter and 125 ft. high in the highest point of the city.

EAST McKEESPORT, PA.—HASTINGS & BARRETT, of Wilmerding, have been awarded the contract for constructing a large reservoir for the East McKeesport Water Co. It will be located near the Greensburg Pike and will be one of 10,731,000 gallons capacity. The approximate cost of the work will be $14,000.

PHILADELPHIA, PA.—Bids are asked until Aug. 1, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for building a filter plant at the Queen Lane Reservoir. Contract No. 41. Specifications and bidding sheet are on file at the office of Engineering News, New York.

WASHINGTON, D. C.—Bids are asked until noon, Aug. 4, by the District Commissioners, for furnishing 600 tons of 8-in. c.-i. water pipe. (Advertised, Engineering News.)

WARRENTOWN, VA.—We have been officially informed that the date of receiving bids for constructing dam and reservoir has been postponed until July 27. H. I. Hutton is Chn. Water Com.

NORFOLK, VA.—Bids are asked until 10 a. m., July 31, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish at the naval magazine, St. Julians Creek, Va., sprinkling system for buildings Nos. 4, 6, 7 and 8, and water tower and tank, pumping machinery, etc., for improvement of fire system.

LEESBURG, VA.—W. C. MORRIS, of Phoebus, Va., has contract at $25,400 for construction of water works system in Leesburg.

BECKLEY, W. VA.—Dr. H. L. Kirkpatrick, J. E. Garrett, Alexander McNabb and associates have secured franchise for the installation of water-works, and have organized the Raleigh Water & Ice Co., with capital stock of $75,000, for its construction and operation.

NEWTON, N. C.—It is reported that the city will put in a system of water-works. John P. Yount is Mayor.

LAURINBURG, N. C.—The contract for constructing the city's $34,000 water works plant has been awarded to the SOUTHERN CONTRACTING CO.

ROANOKE RAPIDS, N. C,—Joseph H. Wallace, Temple Court Building, New York, is preparing plans and specifications and will be engineer in charge of the construction of hydro-electric-power plant to be built by the Roanoke Rapids Power Co. It is proposed to develop about 10,000 HP. on the Roanoke River, constructing a concrete dam 2,000 ft. long to divert the water. Two 750-KW. generators will be installed. The powerhouse will be 39 × 49 ft., and its construction will include the installation of headgates.

WAYCROSS, GA.—The City has voted to issue $100,000 in bonds for extension of water mains, street paving and additional school facilities.

TOCCOA, GA.—Plans are now completed for gravity water works system for Toccoa, and active measures will be taken for the early completion and operation of the plant. W. A. Matheson is Chn. W. Wks. Com.

NEW ORLEANS, LA.—Bids in triplicate are asked until noon, July 31, by Capt. B. T. Clayton, Q. M., for making extension to water system at Jackson Barracks.

NASHVILLE, TENN.—Bids are asked until Aug. 16 by the Board of Public Works for furnishing and erecting one 20,000,000-gallon pumping engine of the crank and flywheel type. John T. Ahearn is Supt. W. Wks.

ALLIANCE. OHIO—An ordinance has been passed authorizing the Service Board to enter into a contract for enlarging and improving the city water works plant, in a sum not to exceed $9,500.

DECATUR, OHIO—Decatur is preparing for a new water works plant, and the estimates of D. W. Mead, Engr., call for an expenditure of $212,000 to $248,000. The items are Pumping station, $16,000 to $20,000; filter plant, 5,000,000-gallon capacity, $24,000 to $33,000; pumping engine, 6,000,000-gallon capacity, $24,000 to $27,000; boiler plant, $10,000 to $12,000; station work, piping and resetting machinery, $5,000 to $6,000; concrete dam, $4,500 to $6,000; settling basin, 5,000,000 to 6,000,000-gallon capacity, $15,000 to $18,000; clear water basin, $15,000 to $18,000; 20-in. main to city, $15,000 to $17,000; other reinforcement of mains, $15,000 to $20,000; repairs and roof for present reservoir, $3,500 to $4,000; intercepting sewer, $10,000 to $15,000; engineer and contingencies, $19,000 to $22,000; total, $212,000 to $248,000.

BELDING, MICH.—The City will expend about $60,000 in improvements this year, the greater portion of which includes laying water pipes and sewers.

KINGSLEY, MICH.—Bids are asked until 2 p. m., Aug. 2, by the Village of Kingsley, D. L. Ensign, Pres., for constructing system of water works. (Advertised, Engineering News.)

ROCHELLE, ILL.—See under Light and Power.

PORT WASHINGTON, WIS.—Contracts for constructing water works, bids received June 25, are reported to have been awarded as follows: For laying mains, to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, $8,917; hydrants and valves, RENSSELAER MFG. CO., Troy, N. Y., $2,102; pipe and castings, U. S. CAST-IRON PIPE & FOUNDRY CO., Chicago, Ill., $19,909; intake, to A. J. THACHER & CO., of Toledo, Ohio, $12,000. Press reports state that contracts have not yet been let for stand-pipe, power house engines and pumps. W. A. Tholen is City Clk.; W. G. Kirchoffer, of Madison, Wis., Engr.

MILWAUKEE, WIS.—Bids are asked until 10:30 a. m., Aug. 1, by the Board of Public Works, for installing one 20,000,000-gallon pumping engine at the North Point pumping station, Milwaukee. Charles G. Poetsch is City Engr. V. J. Schoenecker, Jr., is Comr. Pub. Wks.

HOLSTEIN, IOWA.—A new steel water tank and tower will be built for the city water works. The tank will have a hemispherical bottom and will hold 55,000 gallons of water. The cost will be about $4,000.

LEIGH, NEBR.—We are officially advised that C. E. BEATY, of Leigh, has secured contract for installing complete water-works system at this town. The Des Moines Bridge & Iron Co. are Des. Engrs.; R. J. McNary is Clk.

WILLISTON, N. DAK.—See item under Miscellaneous Contracts: Canals and Ditches.

GARDEN CITY, KANS.—We are officially informed that the bids received July 7, at Chicago, for pumping apparatus for Garden City Project, were as follows: (1) For furnishing ten centrifugal pumps, (a) additional lump sum for substituting bronze for c.-i. impellers, (2) for furnishing 23 pumps, (b) lump sum for substituting bronze for c.-i. impellers: Byron Jackson Machine Works, Oakland, Cal., (1) $17,500, (a) $450, (2) $38,000, (b) $1,000; J. Edward Ogden Co., 147 Cedar St. New York, (1) $12,356, (a) $495, (2) $28,418, (b) $1,135; Camden Iron Works, Camden, N. J., (1) $14,200, (a) $240, (2) $32,250, (b) $550; Dayton Hydraulic Machinery Co., Dayton, Ohio, (1) $16,100, (a) $640, (2) $37,000, (b) $1,470; Henion & Hubbell, N. Jefferson St., Chicago, (1) $14,350 and $13,350, (a) $400 and $400, (2) $33,000 and $30,700, (b) $920 and $920; D'Olier Engineering Co., 1121 South Eleventh St., Philadelphia, (1) $17,700, (a) $360, (2) $38,120, (b) $828; Henry R. Worthington, 114 Liberty St., New York, (1) $15,250, (a) $1,350, (2) $35,075, (b) $3,105; Lawrence Machine Co., Lawrence, Mass., (1) $14,432, (a) $950, (2) $32,825, (b) $2,200; Platt Iron Works, Dayton, Ohio, (1) $16,000, (a) $550, (2) $36,000, (b) $1,300; United Iron Works, Oakland, Cal., (1) $17,500 and $18,500, (a) $750 and $750, (2) $40,250 and $42,550, (b) $1,725 and $1,725; Jeanesville Iron Works Co., (1) $17,063, (a) $500, (2) $38,250, (b) $1,200.

MADILL, I. T.—It has been voted by this city to issue bonds to the amount of $40,000 for the construction of a water-works system. The O'Neill Engineering Co., of Dallas, Tex., will make plans. E. D. Slough is City Recdr.

WANETTE, OKLA.—Contracts for constructing water-works bids received July 5 have been awarded as follows: Hydrants and valves, to FAIRBANKS CO.; pumps, to McGOWAN PUMP CO.; boilers, to ATLAS ENGINE CO., and construction work, to O'NEILL ENGINEERING CO., of Dallas, Tex.

EAGLE LAKE, TEX.—We have been officially informed that the Faber Planting Co. will install an irrigation plant on its plantation, near Eagle Lake. There will be two 30-in. centrifugal pumps. The company wishes to correspond with contractors relative to installing complete plant. T. L. Smith, Eagle Lake, is Engr.

FORT WORTH, TEX.—Plans are being prepared by Sanguinet & Staats for pumphouse to be constructed at Arlington Heights by the Arlington Heights Traction Co. Two pumps will be installed, one to raise the water to the surface and the other to carry it up hill into tank.

MANITOU, COLO.—See Light and Power Plants.

COLORADO SPRINGS, COLO.—The Empire Water & Power Co., with $2,500,000 capitalization, has been incorporated by W. A. Otis, G. A. Taft and other Colorado Springs capitalists, to construct a system of reservoirs sufficient to store 8,000,000,000 gallons of water, to lay necessary pipes and to erect and equip stations, in order to furnish water, light and power to the Pike's Peak region. One of the reservoirs may be located near Manitou, and the rest on Catamount and Crystal Creeks, below Green Mountain Falls, on a tract of 1,000 acres, which the company owns.

TRINIDAD, COLO.—Bids are asked until Aug. 6, by I. D. Miliken, City Clk., for work of laying 24 miles of 13, 15 and 16-in. steel pipe to supply Trinidad with water from a mountain stream. We are officially informed that the NATIONAL TUBE CO. has secured contract to furnish the pipe at $175,000. The estimated cost of the whole undertaking is $250,000. William G. Goodwin is Ch. Engr.

VALE, ORE.—Vale voted on June 29 to issue bonds in the sum of $20,000 to be used in construction of a water-works and electric light system.

MONTPELIER, IDAHO.—The contract for putting in a water-works system has been let to CRAVEN, GILMARTIN & ZITZMAN, at $20,755. The contractors are to furnish machine, bonded wood stave pipe and all fittings and attachments. The plant is to be completed by Oct. 1.

ANDOVER, N. B.—Bids are asked until July 23, by C. H. Elliott, for extending water system at Andover.

VANCOUVER, B. C.—Surveyors are now at work locating the proposed reservoir on Little Mountain, Fairview.

Bids are asked until Aug. 1, by the Water-Works Committee, for about 750 tons c.-i. pipe.

MACLEOD, ALTA.—Bids are asked until July 26, by E. F. Brown, Town Clk., for laying 8,300 ft. 8-in. and 16,300 ft. 6-in. wire-wound wood pipe, and placing 35 hydrants and 41 grate valves and boxes.

MONTREAL, QUE.—The contract for supplying 419 tons c.-i. pipes to the City has been awarded to the ROBERT MACLAREN CO., at $12,560.

MOOSEJAW, SASK.—The City Engineer has been instructed to prepare plans for a dam at Snowy Springs, and for a pipe line to the city.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, MASS.—We are officially advised that on July 3 the following bids were received for excavating soil and paving bank of Naugatuck River, for the Waterbury Sewage Disposal Works: AUGUSTE SAUCIER, South Framingham, $52,050 (contract awarded); Bruno Salomone & Pettiti, Boston, $57,700; Coleman Bros., 15 Court sq., Boston, $61,550; Rowe & Perini, South Framingham, $63,850; Fred T. Ley & Co., Springfield, $72,050. William Galvin Taylor is Res. Engr.

SWAMPSCOTT, MASS.—Bids are asked until noon, July 20, by the Sewer Commissioners, for constructing about one mile of sewer. E. Worthington, Dedham, is Engr.

NEW HAVEN, CONN.—Plans have been completed for constructing overflow sewer, to cost about $40,000. C. W. Kelley is City Engr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 26, by Louis J. Haffen, Pres. Boro. of the Bronx, for constructing sewers in various parts of the Bronx.

The following is the list of the bids for new sewers to be laid in different parts of Queens, that were opened July 9 at the Borough Hall, by Joseph Bermel, Pres. To construct a sewer and appurtenances in Oak St., from Flushing Creek to 17th St., and in 17th St., from Oak St. to Cypress Ave., and in Cypress Ave. from 17th St. to 16th St., and in Queens Ave. from 17th St. to 20th St., and the construction of 14 catch basins in connection therewith, Ingleside, Third Ward: Peace Bros., $318,685; C. W. Collins, $249,665; U. S. & Venezuela Co., $240,096; Newman Construction Co., $234,979; P. B. Brennan, $286,266; James Malloy & Co., $198,3?2; P. J. Murray, $190,816. To construct sewer and appurtenances in Ditmars Ave., from Lawrence to Crescent Sts., and in Crescent from Ditmars to Potter Aves., in the First Ward: John J. Young, $17,856; Long Island Construction & Supply Co., $22,250; H. J. Mullen, $18,024; Peace Bros., $20,273; Thomas Welsh, $14,581; C. W. Collins, $22,190; P. F. Brennan, $23,784. To construct a sewer and appurtenances in Ninth Ave., from Flushing Ave. to the crown 200 ft. south of Vandeventer Ave., in the First Ward: John J. Young, $5,337; H. J. Mullen, $5,006; Gabriel Hill, $3,986; Peace Bros., $6,049; Long Island Construction & Supply Co., $6,246; Thos. Crimmins Construction Co., $4,336; Thomas Welsh, $3,916. To construct a sewer and appurtenances in the Crescent, between Grand and Jamaica Aves., in the First Ward: John J. Young, $4,581; Henry J. Mullen, $4,433; Gabriel Hill, $2,954; Long Island Construction & Supply Co., $5,417; Peace Bros., $4,850; Thomas Welsh, $3,516. To construct sewer and appurtenances in Fifth Ave., from Flushing to Vandeventer Aves., and in Vandeventer Ave., from Fifth to Tenth Aves., in the First Ward: C. W. Collins, $21,584; J. J. Young, $20,212; Long Island Construction & Supply Co., $29,978; H. J. Mullen, $18,401; Peace Bros., $20,526; P. F. Brennan, $24,391; Thomas Welsh, $15,144. To construct a sewer and appurtenances in 18th Ave., from Wilson to Jackson Aves., in the First Ward: C. W. Collins, $57,671; John J. Young, $38,708; H. J. Mullen, $41,061; Peace Bros., $51,593; Long Island Construction and Supply Co., $61,995; P. F. Brennan, $55,584; Thomas Welsh, $40,830. To construct a sewer and appurtenances in Grand Ave., from 11th to 18th Aves., in the First Ward: J. J. Young, $19,840; H. J. Mullen, $20,166; C. W. Collins, $27,495; Peace Bros., $23,702; P. F. Brennan, $23,975; Thomas Welsh, $17,019; Long Island Construction Co., $27,370.

SARATOGA SPRINGS, N. Y.—Bids are asked until 2.30 p. m., July 20, by the Sewer, Water and Street Commission for constructing a 6-in. terra cotta sewer along Hamilton St. Philip S. Wakeley is Clk.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., July 23, by the Board of Contract and Supply, for constructing sewers in various parts of the city. George J. Metz is City Clk.

SENECA FALLS, N. Y.—Bids are asked until 2 p. m., Aug. 11, by the Municipal Board, for constructing about eight miles of 6 to 24-in. pipe sewers. Morrison & Farrington, Inc., Syracuse, are Engrs.; E. L. Guion is Village Clk. (Advertised, Engineering News.)

HOBOKEN, N. J.—Bids are asked until 8 p. m., July 25, by the Mayor and Council, for the building and completion of six new receiving basins, ten new basin heads and gutter stones set, and for building a box sewer across Eighth St. to connect with Jefferson St. sewer on south side of Eighth St. James H. Londrigan is City Clk.

The contract for the Horseshoe relief sewer from Division St. through to 12th St. to the Hudson River, has been awarded to PATRICK CONNOLLY, who bid 105% of the standard set by the chief engineer. The specifications call for a sewer to cost $207,000, plus advertising expenses and the inspectors' salaries. To this must now be added 5% for the bid which is that over the standard. The sewer will probably cost $225,000.

TRENTON, N. J.—The City has given notice that an ordinance has been passed providing for installation of sewers in various streets of Trenton.

MOUNT, HOLLY, N. J.—Bids are asked until July 26, by the Board of Public Works, for constructing trunk sewer in southern part of the city.

VERONA, PA.—Bids are asked until July 23, by the Borough Council, for constructing about 1,000 ft. 8-in. sanitary sewer in North Ave.

WAYNESBORO, PA.—A sewer four ft. in diameter, of concrete and stone, will be laid under the Center Sq. in Waynesboro.

SAYRE, PA.—Bids are asked until 6 p. m., Aug. 15, by H. H. Mercereau, Boro. Clk., for constructing trunk sewer, to include 4,798 ft. 24-in., 1,123 ft. 20-in. and 1,045 18-in. pipe.

WASHINGTON, D. C.—Bids are asked until noon, Aug. 6, by the District Commissioners, for constructing pipe sewers. (Advertised, Engineering News.)

NEWARK, OHIO.—Bids are asked until July 23, by the Board of Public Service, for the construction of tile sewers on Webb and Buena Vista Sts. and Eastern Ave., to consist of 384 lin. ft. 18-in., 1,874 lin. ft. 15-in., 622 lin. ft. 12-in. and 1,708 lin. ft. 6-in., eight manholes, 15 catch basins and two lamp holes. C. H. Wells is City Engr.

TOLEDO, OHIO.—Bids are asked until July 23, by the Board of Public Service, Reynold Volt, Secy., for furnishing material and constructing a main sewer in a portion of Fasset St. and two alleys.

ASHLAND, OHIO.—Bids are asked until July 27, at the office of A. P. Black, Village Clk., for $10,000 bonds for the purpose of improving and extending the sewer system.

CINCINNATI, OHIO.—Bids will be received until Aug. 2, by the Board of Public Service, M. J. Keefe, Clk., for furnishing material and improving several streets by constructing sewers and drains, to cost about $46,792.

NEW BREMEN, OHIO.—Bids will be received here until July 26, by A. M. Steinbery, Clk., for the construction of a new main sewer in Washington St.

MICHIGAN CITY, IND.—Bids are asked until July 26, by the Board of Public Works, for construction of approximately 11,600 ft. of reinforced concrete sewer, of 7, 7½ and 8-ft. diameter.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., July 25, by the Department of Public Works, Joseph T. Elliott, Pres., for constructing sewer in Kealing St., from Washington to Vermont Sts.

HOUGHTON, MICH.—G. L. Clausen, Village Engr., has completed the specifications and profiles for building the new West Houghton sewer system. Estimated cost, $20,000.

MONROE, MICH.—If plans are carried out the City will have a new sewer system separate from the system now in use. The estimated cost of the change is $125,000 to $150,000.

MUSKEGON, MICH.—Bids are asked until noon, July 23, by P. P. Misner, Recdr., for constructing Sewer No. 8, at Muskegon.

SOMONAUK, ILL.—Contract for construction of addition to sewer system has been let to D. V. AULT CO., McKeesport, Pa., at $11,287.

MADISON, WIS.—We are officially advised that contract for constructing 2½ miles of sewers in Sherman Ave. District, has been awarded to J. H. MITCHELL, Madison, at $14,000. J. F. Icke is City Engr.

OSCEOLA, IOWA.—J. R. McClenahan, of Monmouth, Ill., is preparing plans for the proposed sewerage system; the sewers will be of pipe, and cost about $10,000. W. N. Temple is City Clk.

IOWA CITY, IOWA.—Bids are asked until July 27, at office of F. H. Dondore, City Clk., for furnishing all material and labor for constructing a sewer on Dodge St.

DES MOINES, IOWA.—Bids are asked until July 28, by the Board of Public Works, for constructing the Northwest sewer system, to consist of about 15,000 lin. ft. 8, 10, 12, 15 and 18-in. pipe sewers. George D. Dobson is City Engr.

BOONE, IOWA.—The CHRISTY CONSTRUCTION CO., Des Moines, has secured contract for building 8,000 ft. sewer, at $12,320, in Boone.

CHARLES CITY, IOWA.—The City Council has decided to expend several thousand dollars in putting in a complete system of sewerage in the eastern part of the city.

MOORHEAD, MINN.—The Moorhead City Council has awarded the contract to JAMES KENNEDY, of Fargo, N. Dak., for putting in sewer system in this city. Cost, $88,980.

MORRIS, MINN.—Bids are asked until July 30, by the Common Council, for constructing a general sewer, consisting of a reinforced concrete septic tank and appurtenances, 1,607 ft. 15-in. sewer etc.; also constructing sewers in several districts consisting of 14,822 ft. 15, 12, 10, 8 and 6-in. sewer, 35 manholes, etc.

RUSHFORD, MINN.—Bids are asked until July 20, by the City Council at the office of C. O. Aline, City Clk., for constructing a sewer in Maple St. and Rushford Ave., in all about 1,100 ft.

PIPESTONE, MINN.—We are officially advised that WILLIAM C. FRASER & CO., Rochester, Minn., has contract for constructing sewer here. S. W. Funk is City Clk.

SEWARD, NEBR.—Bids probably will be called for about Aug. 1 for the construction of a sewerage system; probable cost, $3,000. C. A. Bemis, of Seward, is Engr.

FAIRBURY, NEBR.—We have been officially informed that on July 10, F. L. Rain, City Clk., awarded to A. A. LANG, University Pl., the contract for constructing several sewers, at $6,000.

GRAND FORKS, N. DAK.—Bids are asked until 7 p. m., Aug. 6, by the City Council, for constructing lateral sewer in alley between Sixth and Seventh Sts., from Griggs to Dakota Aves. W. V. O'Connor is City Audr.

EVANSTON, WYO.—Bids are asked until 2 p. m., Aug. 6, by William Cook, Town Clk., for about 19,000 ft. tile pipe sewer.

INDEPENDENCE, MO.—The City has voted the proposed $30,000 bond issue for extending sewer system and improving electric light plant.

ST. LOUIS, MO.—Webster Groves is preparing to expend from $75,000 to $100,000 for sewers. This will include three or four septic tanks.

SAN ANTONIO, TEX.—This city will extend its system of sewers. The work will cost about $4,000. John D. Rullman is City Engr.

TERRELL, TEX.—Bids are asked until July 25, by John L. Terrell, for septic sewerage disposal plant for North Texas Hospital for the Insane. John S. Turner is Supt.

DALLAS, TEX.—Bids are asked until 4 p. m., July 24, by E. L. Dalton, City Engr., for sanitary sewers at Dallas.

SAN FRANCISCO, CAL.—The City has given notice of its intention to expend about $30,000 for repairing sewers and pavements. Thomas P. Woodward is City Engr.; George B. Keane is Clk. Bd. Pub. Wks.

SACRAMENTO, CAL.—Bids are asked until 8 p. m., July 30, by M. J. Desmond, City Clk., for constructing a sewage pumping plant for the City of Sacramento. George Randle is City Surv.

LOS ANGELES, CAL.—Laundry owners on Los Angeles St. and the City, through the Board of Public Works, will form a partnership and lay a sewer on 11th St., from Los Angeles St. to Maple Ave. The City will pay half the expense and the laundry owners the other half.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

HAVERHILL, N. H.—Bids are asked until 5 p. m., July 31, by A. W. Dean, State Engr., for macadamizing roads in Haverhill and Joffrey, to cost about $7,000.

BOSTON, MASS.—Contracts were awarded, as follows, for constructing state roads in the following towns, bids for which were received on July 10: Garden—FRED. E. ELLIS, Melrose, Mass., at $3,876; Charlton—R. F. HUDSON, Melrose, at $4,195; Ashby—R. F. HUDSON at $3,237; Hadley—LANE CONSTRUCTION CORPORATION, at $3,120. Bids are asked until noon, July 23, by James H. Doyle, Supt. Streets, for constructing Telford macadam roadway in Bennington St.

NEW HAVEN, CONN.—WARREN BROS. CO., of Boston, has been given a contract for bitulithic pavement on Broadway, at about $18,000.

ALBANY, N. Y.—As a result of the opening of bids on June 28, 29 and 30, Henry A. Van Alstyne, State Engr. and Surv., has awarded contracts for the improvement of public highways, as follows: (1) number of road, (2) name, (3) county:

To CASEY & MURRAY, 313 Powers Bldg., Rochester, N. Y.: (1) 250, (2) Utica-Oneida Castle, Sec. 1, (3) Oneida, $133,050; (1) 295, (2) Mohawk River-Floyd, (3) Oneida, $26,750; (1) 296, (2) Mohawk River-Marcy, (3) Oneida, $43,250; (1) 297, (2) Mohawk River-Deerfield, (3) Oneida, $31,450; (1) 417, (2) Glens Falls-Lake George, (3) Warren, $65,000; (1) 418, (2) Lake George-Bolton Landing, (3) Warren, $82,500.

To CORLISS CONSTRUCTION CO., Troy, N. Y.: (1) 227, (2) Brunswick Turnpike, (3) Rensselaer, $25,748.

To D. V. ASHLEY, Binghamton, N. Y.: (1) 446, (2) Cortland-Groton, Sec. 1, (3) Cortland, $9,782.

To ANDREWS BROS., Mineola, N. Y.: (1) 270, (2) Birch Hill, (3) Nassau, $10,173; (1) 434, (2) Annandale-Bayview, (3) Nassau, $11,026.

To WILLIAM E. BALDWIN & CO., 666 Ellicott Sq., Buffalo, N. Y.: (1) 373, (2) Goodrich, (3) Erie, $69,197; (1) 507, (2) Transit, Sec. 3, (3) Niagara, $38,699; (1) 523, (2) Hamburg-North Collins, (3) Erie, $94,000.

To CLINTON BECKWITH, Herkimer, N. Y.: (1) 232, (2) Old State, (3) Essex, $18,000; (1) 233, (2) Frankfort-East Schuyler, (3) Herkimer, $12,700; (1) 243, (2) Mechanicville-Stillwater, (3) Saratoga, $18,000; (1) 244, (2) Saratoga-Schuylerville, (3) Saratoga, $53,000; (1) 247, (2) Johnstown-Kecks Center, (3) Fulton, $40,000; (1) 258, (2) Plattsburgh-Keeseville, Sec. 3, (3) Clinton, $36,000.

To F. A. BROTSCH, Powers Bldg., Rochester, N. Y.: (1) 252, (2) Clifton, Sec. 2, (3) Monroe, $18,000; (1) 253, (2) Lyell, (3) Monroe, $18,000; (1) 254, (2) Chili, Sec. 1, (3) Monroe, $19,400; (1) 257, (2) Little Ridge, Sec. 4, (3) Monroe, $23,000; (1) 269, (2) Hilton, (3) Monroe, $26,000.

To BRAYER BROS., Auburn, N. Y.: (1) 383, (2) Owasco, (3) Cayuga, $18,000.

To BRENNAN & O'BRIEN, Watertown, N. Y.: (1) 237, (2) Sacketts Harbor, (3) Jefferson, $10,887.

To BOARD OF SUPERVISORS, Erie County, James B. Wilson, Chn., City Hall, Buffalo: (1) 264, (2) Aurora-Buffalo, Sec. 3, (3) Erie, $6,500.

To MOSIER & SUMMERS, 1266 Seneca St., Buffalo, N. Y.: (1) 251, (2) Griswold St., (3) Niagara, $17,500; (1) 335, (2) Victor-Mendon, Sec. 1, (3) Ontario, $36,400.

To MOTT & KEMPER, 75 Arcade Bldg., Utica, N. Y.: (1) 509, (2) Oswego Co.-Mexico, Sec. 1, (3) Oswego, $44,700.

To JAMES E. MARTIN, Poughkeepsie, N. Y.: (1) 549, (2) Poughkeepsie-Pleasant Valley, (3) Dutchess, $52,496.

To McNAMEE & RICE, Rondout, N. Y.: (1) 453, (2) Poughkeepsie-Hyde Park, (3) Dutchess, $38,000; (1) 551, (2) Fishkill-Hughsonville, (3) Dutchess, $22,000.

To J. H. NELSON & CO., Herkimer, N. Y.: (1) 458, (2) Herkimer-Frankfort, (3) Herkimer, $31,367; (1) 460, (2) Herkimer-Middleville, (3) Herkimer, $62,326.

To ORANGE COUNTY ROAD CONSTRUCTION CO., 120 Broadway, New York: (1) 157, (2) Woodbury-Central Valley, (3) Orange, $18,368.

To J. W. POLCARO, Pittsfield, Mass.: (1) 341, (2) Stockport-Hudson, (3) Columbia, $23,100; (1) 540, (2) Chatham-Spencertown, (3) Columbia, $19,200.

To C. H. QUEREAU, Baldwinsville, N. Y.: (1) 292, (2) West Lake, Sec. 2, (3) Onondaga, $9,350; (1) 293, (2) East Lake, Sec. 2, (3) Onondaga, $8,750; (1) 377, (2) Cincinnatus, (3) Cortland, $3,650.

To S. A. SEYMOUR, Herkimer, N. Y.: (1) 457, (2) Little Falls-Herkimer, (3) Herkimer, $55,950.

To SCHENECTADY CONTRACTING CO., Schenectady, N. Y.: (1) 241, (2) Saratoga-Ballston, (3) Saratoga, $30,969.

To ROBERT SHAFER, Albany, N. Y.: (1) 248, (2) Gloversville-Meco-Phelps, (3) Fulton, $17,203; (1) 277, (2) Lake Pleasant-Speculator, (3) Hamilton, $24,443.

To HENRY C. SCHROEDER, Henrietta St., Rochester, N. Y.: (1) 333, (2) Geneva-Canandaigua, Sec. 3, (3) Ontario, $8,242; (1) 334, (2) Lyons-Geneva, (3) Ontario, $12,466.

To D. I. SNELL & CO., Canajoharie, N. Y.: (1) 302, (2) Fonda-Berryville, (3) Montgomery, $14,320.

To SARATOGA TRAP ROCK CO., Saratoga, N. Y.: (1) 242, (2) Saratoga-Glens Falls, Sec. 2, (3) Saratoga, $8,513.

To A. SCHAUPP, Albany, N. Y.: (1) 360, (2) Poland-Cold Brook, (3) Herkimer, $3,740; (1) 369, (2) Augusta Road-Oriskany Falls, (3) Oneida, $24,900.

To U. G. STOCKWELL, Albany, N. Y.: (1) 361, (2) Johnstown-Tribes Hill, (3) Fulton, $20,149.

To SIVER & GOULD, Sidney, N. Y.: (1) 316, (2) Colliersville-Emmons, (3) Otsego, $10,716; (1) 317, (2) Shadyside-Otego, (3) Otsego, $19,968.

To E. R. STEELE, Herkimer, N. Y.: (1) 298, (2) Amsterdam-Hagaman, (3) Montgomery, $15,000.

To W. I. TYLER, Chittenango, N. Y.: (1) 506, (2) Chittenango-Eagle Village, (3) Madison, $19,000.

To TOWN OF ROCHESTER, N. Y.: (1) 305, (2) Kingston-Ellenville, Sec. 2, (3) Ulster, $56,500.

To S. B. VAN WAGONEN, Rondout, N. Y.: (1) 314, (2) Gilbertsville-Mt. Upton, (3) Otsego, $37,000; (1) 318, (2) Colliersville-Milford Center, (3) Otsego, $16,500; (1) 319, (2) Schenevus-Maryland, (3) Otsego, $34,400.

To TOWN BOARD OF LLOYD, Ulster County: (1) 231, (2) Post, (3) Ulster, $52,250.

To JOHN WEBER & SONS, NEW YORK: (1) 278, (2) Syracuse-Watertown, (3) Oswego, $26,661; (1) 510, (2) Homer-Tully, Sec. 1, (3) Oswego, $25,770.

To JOSEPH WALKER, Mariners' Harbor, New Salem, N. Y.: (1) 230, (2) Kingston-Ellenville, Sec. 1, (3) Ulster, $63,439; (1) 209, (2) Saulwaters Corners-Young Corners, (3) Montgomery, $16,300; (1) 569, (2) Baldwin Place-Mahopee, (3) Putnam, $44,000.

To C. C. BURNS, Watertown, N. Y.: (1) 234, (2) Adams-Henderson, Sec. 2, (3) Jefferson, $45,176; (1) 235, (2) Watertown-Sacketts Harbor-Henderson, Sec. 2, (3) Jefferson, $13,962; (1) 427, (2) Watertown-Carthage, Sec. 2, (3) Jefferson, $37,256.

To BOUVIER & RAWLINS, Elmira, N. Y.: (1) 356, (2) Erin-Horseheads, (3) Chemung, $93,012.

To BUCKLEY CONSTRUCTION CO., Plattsburg, N. Y.: (1) 249, (2) Old Plank, (3) Fulton, $24,800; (1) 259, (2) Plattsburgh-Mooers, Sec. 2, (3) Clinton, $55,894; (1) 260 (2) Plattsburgh-Mooers, Sec. 3, (3) Clinton, $33,000; (1) 340, (2) Saratoga-Corinth, (3) Saratoga, $48,887.

To BOARD OF SUPERVISORS, Broome County, A. W. T. Back, Clk., Binghamton: (1) 265, (2) Deposit, (3) Broome, $26,475; (1) 266, (2) Tunnel, (3) Broome, $13,319; (1) 267, (2) Castle Creek, (3) Broome, $54,663; (1) 268, (2) Bridge Road, (3) Broome, $9,054; (1) 274, (2) Gulf Bridge, (3) Broome, $14,406; (1) 275, (2) Union-Maine, (3) Broome, $30,604; (1) 374, (2) Maine, (3) Broome, $32,903; (1) 375, (2) Barker, (3) Broome, $62,291; (1) 420, (2) Vestal, (3) Broome, $35,287.

To CHAMBERS & GRADY, 315 Powers Bldg., Rochester, N. Y.: (1) 388, (2) Kendalls Corners, (3) Orleans, $22,700; (1) 484, (2) Canandaigua-Victor, (3) Ontario, $44,135.

To JOHN F. CONSAULUS, West Brighton (S. I.), N. Y.: (1) 228, (2) Saugerties-Kingston, (3) Ulster, $40,800.

To J. C. DAYTON, Auburn, N. Y.: (1) 384, (2) Fleming, (3) Cayuga, $23,998; (1) 430, (2) Jordan Valley, Sec. 1, (3) Onondaga, $13,797; (1) 431, (2) Skaneateles-Spafford, (3) Onondaga, $25,997; (1) 486, (2) Skaneateles-West Lake, Secs. 3, 4 and 5, (3) Onondaga, $27,997; (1) 535, (2) Cortlandt-Dryden, Sec. 2, (3) Cortland, $19,997.

To W. J. DWYER, Syracuse, N. Y.: (1) 348, (2) Collamer, (3) Onondaga, $18,000; (1) 429, (2) Thompson, (3) Onondaga, $22,700; (1) 452, (2) Cicero-South Bay, (3) Onondaga, $28,938.

To JOHN FLYNN, Waterford, N. Y.: (1) 240, (2) Waterford-Cohoes, (3) Saratoga, $21,138.

To J. T. FINCH, Glens Falls, N. Y.: (1) 577, (2) Schenectady-Guilderland, (3) Schenectady, $48,287.

To FERGUSON BROS., Fishers Island, N. Y.: (1) 289, (2) Crescent Ave., (3) Suffolk, $18,750.

To GANTZ-WILSON CO., Buffalo, N. Y.: (1) 263, (2) Aurora-Buffalo, Sec. 2, (3) Erie, $39,950; (1) 371, (2) Clinton St., Sec. 1, (3) Erie, $45,925; (1) 372, (2) Clinton St., Sec. 2, (3) Erie, $52,995.

To GENERAL CONSTRUCTION CO., Bridgeport, Conn.: (1) 537; (2) Amenia-Wassaic, (3) Dutchess, $39,960.

To JOHN H. GORDON, Albany, N. Y.: (1) 288, (2) Troy-Sand Lake, Sec. 2, (3) Rensselaer, $14,700.

To GREECE CONSTRUCTION CO., Powers Bldg., Rochester, N. Y.: (1) 256, (2) Little Ridge, Sec. 3, (3) Monroe, $23,600; (1) 276, (2) Barnard's Crossing, Secs. 1 and 2, (3) Monroe, $34,900.

To F. W. HAMILTON, Rochester, N. Y.: (1) 505, (2) Norwich-North Norwich, (3) Chenango, $39,000.

To the SCHOFIELD CO., Penn Bldg., Philadelphia, Pa.: (1) 261, (2) Peekskill-Salem, Sec. 1, (3) Westchester, $43,233; (1) 262, (2) Peekskill-Salem, Sec. 2, (3) Westchester, $33,711.

To JOHN JOHNSON, Buffalo, N. Y.: (1) 208, (2) Reed's Corners, (3) Ontario, $19,200; (1) 272, (2) Orchard Park, Sec. 5, (3) Erie, $12,000.

To F. W. KNICKERBERG, Buffalo, N. Y.: (1) 522, (2) Clarence-Hunts Corners, (3) Erie, $31,800; (1) 586, (2) East Pembroke-Genessee, (3) Genessee, $37,960.

To THOMAS H. KARR, Troy, N. Y.: (1) 285, (2) Nassau-Brainard, (3) Rensselaer, $31,500.

To LANE CONSTRUCTION CO., Meriden, Conn.: (1) 344, (2) Millerton-Northeast Centre, (3) Dutchess, $17,324; (1) 534, (2) Northeast Centre-Sharon Station, (3) Dutchess, $31,600.

To C. R. LEWIS, Ilion, N. Y.: (1) 359, (2) Frankfort-Utica, Sec. 2, (3) Herkimer, $14,600.

To NICHOLAS MARNELL, Syracuse, N. Y.: (1) 290, (2) South Salina St., (3) Onondaga, $11,085; (1) 291, (2) Cemetery Road, (3) Onondaga, $8,400.

To D. MOYNEHAN, Utica, N. Y.: (1) 301, (2) Minaville-Scotch Bush, (3) Montgomery, $15,000.

To B. MANION, Herkimer, N. Y.: (1) 315, (2) Morris-Gilbertsville, Sec. 1, (3) Otsego, $26,000.

To M. MURRAY, Troy, N. Y.: (1) 284, (2) Averill Park-Crooked Lake, (3) Rensselaer, $27,660.

To J. H. MALCOLM, Albany, N. Y.: (1) 365, (2) Guilderland Centre-Guilderland, (3) Albany, $13,575.

Bids are asked until 3 p. m., July 16, by the Board of Contract and Supply, Isidore Wachsman, Clk., for improving Teunis, Bradford, Morris and South Lansing Sts., at a total estimated cost of $12,600.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., July 23, by the Board of Contract and Supply, for paving various streets in Syracuse. George J. Metz is City Clk.

NEW YORK, N. Y.—Bids are asked until 3 p. m., July 26, by the Department of Parks, for constructing a Portland cement walk in East River Park. Moses Herrman, Arsenal Bldg., Central Park, is Pres.

Bids are asked until 11 a. m., July 26, by Louis J. Haffen, Boro. Pres., for regulating, grading and paving various streets in the Borough of the Bronx.

Bids are asked until 3 p. m., July 26, by the Department of Parks, for laying a cement sidewalk on north side of Concourse, Coney Island; for grading and paving with asphalt the roadway of Pennsylvania Ave., Brooklyn, and for grading and paving with asphalt the roadway of Glenmore Ave., Brooklyn. Moses Herrman is Pres.

WESTFIELD, N. J.—Contract for laying flag sidewalks has been awarded to WM. H. WELDON, at $2,874. Lloyd Thompson is Town Surveyor.

HOBOKEN, N. J.—Bids are asked until 8 p. m., July 25, for the repaving of Hudson Place, from the easterly line of Hudson St. to the easterly line of the city. Work includes regulating grade, resetting curbs, relaying crosswalks and repaving roadway with present Belgian block pavement. James H. Londrigan is City Clerk.

CAMDEN, N. J.—Bids are asked until 11 a. m., Aug. 8, by the Board of Chosen Freeholders, Camden, for macadamizing the Blackwell Turnpike, Linden Ave. and Kings Highway. Plans, specifications and bidding sheets are on file at the office of Engineering News, New York. (Advertised, Engineering News.)

NEW BRUNSWICK, N. J.—Bids are asked until 11 a. m., July 20, by the Board of Chosen Freeholders of Middlesex County for improving five roads. M. Irving Demarest is Clk.

ATLANTIC CITY, N. J.—Bids are asked until Aug. 1 for the construction of a gravel road in Atlantic County, known as the Hammonton and Atsion Road.

JERSEY CITY, N. J.—Bids are asked until 4 p. m., July 26, by the Board of Chosen Freeholders of Hudson County, for the improvement of a portion of the Paterson Plank Road. John P. Egan is Clk.

ALTOONA, PA.—Contracts have been awarded by the Board of Public Works to the GANTZ CONSTRUCTION CO., of Canton, Ohio, for 142,576 sq. yds. of paving, at $253,567. The AMERICAN ASPHALTUM & RUBBER CO. received the contract for asphalt filler for above pavement, at $29,228. Harvey Linton is City Engr.

BELLEVUE, PA.—The contract for paving Myrtle, Seville and River Aves., requiring about 6,952 sq. yds. brick pavement, 4,600 lin. ft. curb and 8,000 cu. yds. excavation, has been awarded to SAML. GAMBLE, of Carnegie, Pa., for about $16,000.

POTTSVILLE, PA.—Bids are asked until 7.30 p. m., July 31, by G. A. Berner, Town Clk., for 8,000 sq. yds. of vitrified paving.

HARRISBURG, PA.—Bids are asked until noon, July 20, by the Highway Department for paving and curbing a number of streets. W. H. Lynch is Comr.

Bids are asked until Aug. 1 by J. W. Hunter, State Highway Comr., for the construction of 5,000 ft. of road.

CRESSON, PA.—Contract for the section of the State road to be built through Cambria Township has been awarded to J. C. McSPADDEN, of Pittsburg, at $14,243.

SALISBURY, MD.—Bids are asked until 8 p. m., Aug. 7, by the Council, for grading, paving, curbing and draining Main and Division Sts. T. Chalkley Hattan is Consult. Engr.; Henry J. Boyd is Clk. of Council. (Advertised, Engineering News.)

PETERSBURG, VA.—Bids are asked until Aug. 3 by the Street Commission for furnishing and laying 8,000 to 10,000 sq. yds. rubble stone paving on Old St. R. D. Budd is City Engr.

CONCORD, N. C.—Bids are asked until July 21 by the State Highway Department for grading and surfacing with gravel, roads in the following towns: About 3,500 ft., Androscoggin River Road, Milan; 6,500 ft., Woodstock Road, Plymouth; 1,500 ft., Turnpike Road, Chichester; 2,600 ft. Rock Road, Fremont; grading and surfacing with broken stone about 2,500 ft. Laconia Road, Tilton; grading and surfacing with broken stone and gravel portions of road in Whitefield and constructing culverts in Stratford. A. W. Dean is State Engr.

WAYCROSS, GA.—See under W[illegible] Supply and Irrigation.

MONTGOMERY, ALA.—The MEMPHIS ASPHALT PAVING CO. has contract for paving Sayre St. with asphalt, and the CHATTANOOGA ROOFING & PAVING CO., Chattanooga, for paving Hull St. with brick.

MOBILE, ALA.—Board of Public Works is arranging for about 50,000 yds. [illegible] street paving. It is estimated that the work will aggregate about $195,000. Stewart [illegible] is Pres.

VICKSBURG, MISS.—Bids will probably be received about Sept. 1 for about [illegible] sq. yds. brick or bitulithic pavement, [illegible] 1½ miles of sewer. J. S. Allen, of Greenville, is Engr.

LAKE CHARLES, LA.—The contract for paving several streets in this city has been awarded to PRINGLE & SON, of Kansas City at $73,000.

MEMPHIS, TENN.—Bids are asked until Aug. 9, at the office of the City Engineer, for 30,000 sq. yds. asphalt paving on [illegible]ar St. Jas. A. Omberg, Jr., is City Engr.

DELAWARE, OHIO.—Contract for the construction of the Harlem and Centre Village Road has been awarded to NOR[illegible] & CHRISTIAN, Marion, Ohio, at $31,[illegible]. E. S. Mendenhall is County Surveyor.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 3, by the Board of Public Service, for grading and setting curb on Delaware Ave.

Bids are asked until noon, July 20, for grading, curbing and macadamizing B[illegible] Ave., and grading, curbing and paving with granite West Eighth St.

Bids are asked until noon, Aug. 3 for grading, curbing and paving with brick Columbia Ave. Estimated cost, $86,967. M. J. Keefe is Clk. Bd. Pub. Service.

TOLEDO, OHIO.—Bids are asked until 10 a. m., July 23, by the Board of County Commissioners of Lucas County, for paving Spielbusch Ave., from Jackson to Orange St., with bitulithic pavement. D. T. Davies, Jr., is County Audr.

CELINA, OHIO.—Contract for paving Market St has been awarded to E. A. FRESHWATER & SONS, of Chester, W. Va., at $23,000.

NEWARK, OHIO.—Bids are asked until noon, July 24, by the Commissioners of Licking County for grading and macadamizing 1½ miles of road. Sam Houston is State Highway Comr.

PIQUA, OHIO.—Bids are asked until noon, July 23, by the Board of Public Service, for paving Wood St. with brick. W. B. Mitchell is Clk.

ASHLAND, OHIO.—Bids are asked until noon, Aug. 6, by the Mayor and Council, for grading and paving Walnut St. A. S. Miller is Mayor.

NILES, OHIO.—Bids are asked until July 23 for 39,000 sq. yds. asphalt block paving, and about 10,400 lin. ft. cement curb and gutter. Wm. Wilson is City Engr.

FINDLAY, OHIO.—Bids are asked until Aug. 1 by the Board of Public Service for paving East and West Lincoln Sts. with vitrified block on 6-in. concrete base, about 15,000 sq. yds. John W. S. Riegle is City Engr.

JASONVILLE, IND.—Bids are asked until July 23 by the Town Board for paving Meridian St. with crushed limestone. O. E. Dagley is City Clk.

MARTINSVILLE, IND.—Bids are asked until Aug. 7 by the Commissioners of Morgan County for a gravel road. B. R. Johnson is County Audr.

PETERSBURG, IND.—Commissioners of Pike County have ordered plans and specifications for 14 miles of gravel roads.

BEDFORD, IND.—Bids are asked until Aug. 7 by the Commissioners of Lawrence County for about 70,000 ft. of gravel roads. Walter G. Owens is County Audr.

BRAZIL, IND.—Bids are asked until Aug. 7 by the Commissioners of Clay County for gravel roads.

BLOOMFIELD, IND.—Bids are asked until 2 p. m., Aug. 6, by the Commissioners of Green County for the construction of a gravel and macadam road. W. H. Deckard is County Audr.

CROWNPOINT, IND.—Bids are asked until noon, Aug. 6, by the Commisioners of Lake County, for gravel roads. Chas. A. Johnson is County Audr.

PAOLI, IND.—Bids are asked until 2 p. m., Aug 8, for 10,600 ft. of gravel road. Alvin B. Ham is County Audr.

JASPER, IND.—Bids are asked until Aug. 6 by the Commissioners of DuBois County for the construction of five miles and 480 ft. of gravel road. M. A. Sweeney is County Audr.

VINCENNES, IND.—Bids are asked until 1 p. m., Aug. 7, by the Commissioners of Knox County for 7,792 ft. of gravel road. J. T. Scott is County Audr.

VALPARAISO, IND.—Bids are asked until Aug. 12 by the Commissioners of Porter County for 12 miles of gravel roads.

PEORIA, ILL.—Bids are asked until July 23, for about 24,000 sq. yds. of brick pavement. E. A. Furry is Comr. Pub. Wks.

BEARDSTOWN, ILL.—Bids are asked until July 21 at the office of City Clerk for [illegible],283 sq. yds. of brick pavement, with combined curb and gutter. C. W. Brown, Jacksonville, Ill., is Engr.

MONMOUTH, ILL.—Bids will shortly be received by the Board of Local Improvements for 10,000 sq. yds. of paving, with sandstone curb. R. R. Murdock is Chn. J. L. Bates is City Engr.

EAST ST. LOUIS, ILL.—We are officially advised that on July 12, McCABE & CO., of East St. Louis, secured contract to pave 15th St. with Albion pavement, at $29,098. Other bidders, using same material, were M. J. Kelley, $30,177; Hill-Gayword Construction Co., $29,267. W. J. Crocken is City Engr.

CHAMPAIGN, ILL.—MORRISSEY & PORTER, of Paris, were awarded the contract to pave Clark St., at $16,556.

JONESVILLE, WIS.—Bids are asked until 2 p. m. July 28, by the Street Assessment Committee for grading and improving several streets.

MUSCATINE, IOWA.—Contract for paving in Improvement District No. 23 has been awarded to R. K. SMITH & McCARTHY IMPROVEMENT CO., of Muscatine, at $85,679. Other bidders were: M. Ford, Cedar Rapids, $86,6[illegible]; Davenport Construction Co., Davenport, $[illegible],836; Elijah Baker, Muscatine, $90,757; Independent Construction Co., Muscatine, $88,609.

CENTERVILLE, IOWA.—Contract for brick paving has been awarded to the DAVENPORT CONSTRUCTION CO., of Davenport, Iowa, at $1.78½ per sq. yd. for paving, and 44 cts. per lin. ft. for curb. Only other bidder was McCarthy Improvement Co.

ST. PAUL, MINN.—Bids are asked until Aug. 6, by Edw. G. Krahmer, County Auditor, for paving Edgerton St.

Board of Public Works has awarded contract for resurfacing East Seventh St. to the Barber Asphalt Co., at $10,550.

INDEPENDENCE, KANS.—Bids are asked until 3 p. m., Aug. 14, by T. N. Sickles, City Clerk, for constructing brick pavement, about 16,7[illegible]1 sq. yds., with curb and gutter combined. (Advertised, Engineering News.)

LEVASY, MO.—DAVIDSON BROS., Kansas City, Mo., have contract for grading and masonry on six miles of the Levasy and Oak Grove Roads.

GUTHRIE, OKLA.—BARBER ASPHALT PAVING CO., of Cleveland, Ohio, has contract to pave East Warner Ave., from Oak St. to the Boulevard, with asphalt.

TYLER, TEX.—A contract has been let to ALLEN & HARRIS for street paving; work to cost approximately $3,000. John H. Bonner, Mayor.

DENVER, COLO.—Bids are asked until noon, Aug. 1, by T. W. Jaycox, State Engr., for improving portions of wagon road, between Minturn and Eagle, and Glenwood Springs and Grand Valley.

TACOMA, WASH.—Contracts for street grading have been awarded to P. E. McHUGH, at $10,900 and $6,500. Owen Woods is Comr. of Pub. Wks.

SALT LAKE CITY, UTAH.—Bids are asked until 11 a. m., July 23, by Board of Public Works, for repaving East Temple at First and Second South Sts., and West Temple at First and Second South Sts. F. J. Leonard is Chn.

Contract for macadamizing Second St. from Canyon Road to West St. and C St. from South Temple to Second St., at $79,199, and contract for macadamizing First St. from A St. to J St., at $25,587, were awarded to P. J. MORAN.

HALIFAX, N. S.—The City Council has decided to lay concrete sidewalks on South St. and Spring Garden Road, to cost about $9,200.

TORONTO, ONT.—The Works Committee has recommended that paving, amounting to about $100,000, be done by the city.

VANCOUVER, B. C.—The Court of Revision has adopted a by-law authorizing the construction of 15 miles of cement sidewalks, at a cost of $117,000.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

DEXTER, ME.—The Wassookeag Woolen Co. will erect a 3-story addition of reinforced concrete to its woolen mill here.

ATHOL, MASS.—The contract for a 4-story brick addition to the plant of the L. S. Starrett Tool Co., on Crescent St., has been awarded to G. H. CUTTING & CO., of Worcester.

WEBSTER, MASS.—A new mill will be erected at the East Village Cambric Mills of the Samuel Slater Co. Complete equipment will be installed.

WORCESTER, MASS.—The American Steel & Wire Co. has accepted the bid of F. W. MARK for the construction of a structural steel frame building, at a total cost of $100,000.

FALL RIVER, MASS.—A new brewery will be erected by the Randall Dispensing Apparatus Co., recently incorporated with $500,000 capital. E. R. Randall, Providence, R. I., is Pres.

MIDDLE HADDAM, CONN.—The consolidated Feldspar Co. has been organized here and will erect a large mica mill.

BRIDGEPORT, CONN.—The Wolverine Motor Co. will erect a complete plant at the foot of Union Ave. here.

JAMESTOWN, N. Y.—W. S. Barstow & Co. have been engaged as engineers for remodeling the plant of the Jamestown Worsted Mills. Plans will be drawn covering an extensive addition to the power plant, and the plant will be changed to electric motor drive.

PORT JERVIS, N. Y.—Contract for the erection of a silk glove factory for William [illegible] Chant & Son has been awarded to the CONSOLIDATED CONCRETE BUILDING BLOCK CO.

GLOVERSVILLE, N. Y.—William Lepi & Co. will erect a factory for the manufacture of silk cloth as soon as a site is secured.

SCHENECTADY, N. Y.—Brandywine Park, near Schenectady, will be closed at the end of the season, and on the land, which is owned by the Schenectady Ry. Co., will be erected five large buildings at a cost of $150,000. The buildings will be used for car barns, repair shops and offices.

ALLENTOWN, PA.—Ruhe & Lange, Archs., 10 West Sixth St., are preparing plans for an addition to a hosiery mill for the Novelty Hosiery Co. Power plant and special equipment will be required.

WILLIAMSBURG, PA.—It is reported that Charles M. Schwab will establish a $300,000 foundry here.

READERS' WANTS

FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.

TRACTION ROAD ENGINE.—Allegheny, Pa.—W. L. Hite, 1411 Fulton St., informs us that he is in the market for a traction road engine.

AUTOMOBILES AND MOTOR CYCLES.—La Paz, Bolivia, S. A.—Jno. W. Kelly wants catalogues, with export price lists, of automobiles and motor cycles.

STEAM HAMMERS.—San Francisco, Cal.—We are informed that Norman B. Livermore & Co., San Francisco, Cal., are in the market for steam hammers.

CHARCOAL KILNS.—Unión de Reyes, Cuba.—José M. Egusquiza is in the market for kilns for the making of wood charcoal, according to advices received by us.

FACTORY FIRE ESCAPES.—Gardiner, Me.—We are informed that Hollingsworth & Whitney Co. is in the market for some type of fire escape suitable for factory equipment.

STEAM ELECTRIC AND HYDRAULIC MACHINERY.—Atlanta, Ga.—Jos. M. Roman & Co. write us that they desire catalogues of steam, electric and hydraulic machinery apparatus, and materials of construction for water-works and sewerage system.

COPPER AND SHEET METAL.—Brunswick, Ga.—A. F. Chapman & Co., Brunswick, Ga., write us that they are desirous of corresponding with manufacturers of copper and sheet metal for covering vessels.

JIB CRANES.—Atlanta, Ga.—We are in receipt of a letter from the American Pipe Bending & Machine Co., Atlanta, Ga., in which it states it desires to purchase a jib crane for very severe work. Must not be less than 25 ft. in height nor over 28 ft. Jib should be 30 ft., thus giving crane a radius of 60 ft. Either belt power, hydraulic or electric type.

MISCELLANEOUS MUNICIPAL SUPPLIES.—Bangkok, Siam.—R. Belhomme, Ingr. and Dept. Sanitaire, writes us that the department would like catalogues of iron sheet piles, patent iron bars for ferro-concrete, cements, pumps, water pipes and water-works fittings, boilers and steam engines, portable railway tracks and rolling stock, concrete mixing machines, electric machines, dynamos, arc lamps and iron posts, etc. He further states that such catalogues to be of any value to the department, and also of some eventual profit to the firms, should be accompanied by approximate price-lists.

HARRISBURG, PA.—Plans are being prepared by the Harrisburg Foundry & Machine Co. for a 2-story brick and steel addition, 60 × 100 ft. Complete equipment will be installed.

PITTSBURG, PA.—We are officially informed by H. B. Rust, of the Rust Boiler Co., that the new plant of the company will cover 25 acres. The RITER-CONLEY MFG. CO. has the contract.

MIDDLETOWN, PA.—A 3-story addition will be built at the stove works of the Raymond Mfg. Co. New equipment will be installed.

PHILADELPHIA, PA.—J. F. STUCKERT, 1421 Chestnut St., has received the contract for a 4-story factory to be erected at Wayne Junction for the National Drug Co. Cost, $30,000.

HENDERSON & CO., 1221 Arch St., have received the contract for an addition to the factory at Frankford Ave. and Westmoreland St., for Wostenholm & Sons Co.

PHILADELPHIA, PA.—The Baldwin Locomotive Works will establish at Eddystone, on the Delaware River, near Chester, a big plant to manufacture steel castings.

The C. H. Wheeler Mfg. Co. have plans under consideration for additions which will double their present capacity.

Milligan & Webber, Archs., 520 Walnut St., are asking bids for additions to the factory of George J. Simpson, at 1002 Buttonwood St.

The Philadelphia Rapid Transit Co., Ninth and Dauphin Sts., are asking bids for additions to the car repair shops at Sargent St. and Kensington Ave.

HAGERSTOWN, MD.—Contract for the erection of repair shops for the Western Maryland R. R. Co. has been awarded to W. A. LILLER, of Keyser, W. Va.

WHEELING, W. VA.—Work has been begun on the establishment of a manufacturing plant for the American Telegraphone Co., at Wheeling. The financing of this undertaking is in the hands of Charles K. Fankhauser & Co. and the Sterling Debenture Corporation of New York.

ROANOKE RAPIDS, N. C.—It is reported that the Roanoke Rapids Power Co. will erect at once a complete plant for the manufacture of paper. Several buildings will be erected.

CANTON, N. C.—The Champion Fibre Co., of Canton, has let contracts for the erection of additions to the plant to cost $300,000.

PICKENS, S. C.—JOHN F. GRANDY & SON, of Greenville, have secured the contract for building the new Pickens Cotton Mill at Pickens. W. M. Hagood, of Easley, Pres. of the Glenwood Mills, is Mgr.

DALTON, GA.—The Crown Cotton Mills will build an additional mill, to be equipped with 12,000 spindles, at a cost approximating $350,000. Plans for buildings are being prepared.

CENTER, ALA.—Wm. H. Cather, of Center, will establish a large new plant here for the manufacture of cement building blocks.

MONTGOMERY, ALA.—It is announced that Bert Weil, former Gen. Mgr. of the People's Cotton Mills, will erect a new cotton mill as soon as plans are drawn.

COLUMBUS, MISS.—The Columbus Yarn & Cordage Co. will rebuild its plant which was recently destroyed by fire.

NASHVILLE, TENN.—The H. S. Jamieson Furniture Co. has purchased a site here and will erect a new furniture factory.

NEWPORT, KY.—The Andrews Steel Co. has been incorporated with a capital of $500,000, and will erect a large iron and steel plant and factory colony on the Licking River. A. L. Andrews is Pres.

CINCINNATI, OHIO.—The Post Color Press Co., of Cincinnati, has been incorporated with a capital of $100,000, and will erect a factory. Henry S. Livingston is one of the promoters.

NORWOOD, OHIO.—The Bullock Electric Co. is making plans for new buildings for its plant, to cost $125,000, one addition to be a warehouse, 75 × 225 ft., and a foundry, 100 × 100 ft.

BELLEFONTAINE, OHIO.—The plant of the Union Portland Cement Co., which was destroyed by an explosion, will be rebuilt. Dwight Harrison, of Columbus, is Secy.

COLUMBUS, IND.—The American Harness & Leather Co. will ask for immediate bids for the construction of a factory on the site of the factory recently destroyed by fire. The estimated cost of the new building is $75,000.

MANCHESTER, MICH.—The plant of the Toledo Portland Cement Co. will be sold at auction on Aug. 6th, at 10 a. m. Properties consist of 234 acres of marl and clay lands, factory site of 23 acres, buildings and foundations with a capacity of 1,000 bbls. of finished cement a day, side track, machine shop equipment, etc. $115,000 in cash actually expended on plant, it is announced. For particulars, apply to W. L. Watkins, Receiver, 122 South Main St., Ann Arbor, Mich. (Advertised, Engineering News.)

CHICAGO, ILL.—Architect L. G. Hallberg, 84 La Salle St., let the masonry, concrete work and carpentry to H. & J. ERICKSON, 84 La Salle St., for a factory to be built on Fillmore St., near Douglas Boulevard, for the Price Baking Powder Co. It will be four-story, 100 × 100 ft., with two-story wing, 75 × 100 ft., of reinforced concrete construction, and cost $100,000.

Spaulding & Merrill, tobacco manufacturers, plan the erection of a large manufacturing plant at a cost of $500,000 at South 43d St. and Colorado Ave.

LINCOLN, ILL.—The Lincoln Mfg. Co., of Lincoln, has been incorporated with a capital of $30,000, to manufacture beds. Chas. A. Fisher is Pres.

SPRINGFIELD, ILL.—Work is about to be commenced on the construction of a three-story factory at 11th and Laurel Sts., for Frederick R. Coats, manufacturer of jewelers' tools.

DAVENPORT, IOWA.—Roscoe L. Guernsey, of Centerville, is promoting a company with a capital of $150,000 to erect a new brewery at Davenport.

RED WING, MINN.—A. F. Gauger, Arch., 302 Scandinavian-American Bank Bldg., St. Paul, has awarded the contract to JOHNSON & NELSON for the erection of two buildings for the Red Wing Boat Co.

ST. PAUL, MINN.—BAUMEISTER BROS., city, have been awarded the contract to erect additions and make improvements to the Griffin Wheel Works.

Thori, Alban & Fisher, Archs., 502 Chamber of Commerce Bldg., awarded the contract to INGEMAN BROS. for a three-story factory building, 52 × 100 ft., for S. W. Rudenbush & Co., on Hampden Ave.

ST. LOUIS, MO.—The Acme Truck & Tool Co. has been incorporated with a capital of $600,000 and will erect a large tool factory. Frank G. Koehler, 3100 North Broadway, is the principal stockholder.

MEXICO, MO.—A new shoe manufacturing company is being formed, to be known as Morris Bros. Shoe Co., and will build a large factory at Mexico. H. G. Clymer is Arch.

CRYSTAL CITY, MO.—The Pittsburg Plate Glass Co., of Pittsburg, Pa., has decided to erect a large glass plant at Crystal City.

NASHVILLE, ARK.—The American Spirits Manufacturing Co., of Peoria, Ill., will soon establish a distillery at Nashville with a capacity of 5,000 gallons a day.

DENVER, COLO.—The Colorado Gray Iron Co. has broken ground for the erection of its $100,000 plant here.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

HARBOR IMPROVEMENTS.—Dalhousie, N. B.—The Dominion Parliament has appropriated $11,500 for harbor improvements.

DRAIN.—Brodhagen, Ont.—F. Jacob, Township Clerk, will receive bids until July 23 for repairing and completion of the Nicholson drain in the township of Logan.

LEVEE.—Vicksburg, Miss.—Bids are asked until noon, July 30, by Capt. G. M. Hoffman, Engr., for about 1,655,000 cu. yds. of levee work in Third District, improving Mississippi River. (Advertised Engineering News.)

DRAINAGE WORK.—Bouck's Hill, Ont.—G. Lane, Township Clerk, will receive bids up to July 26th, for drainage work for the Moffatt-Fetterley drain, township of Williamsburg.

LIGHTHOUSE.—Mobile, Ala.—Bids are asked until noon, Aug. 14, for completion and delivery of the Galveston Jetty Lighthouse, Texas. Maj. W. E. Craighill, Engr., Mobile. (Advertised Engineering News.)

LEVEE.—Greenville, Miss.—Bids are asked until 4 p. m., July 31, for the construction of about 1,000,000 cu. yds. of embankment. C. H. West, Ch. Engr. Bd. Mississippi Levee Comrs. (Advertised Engineering News.)

DREDGES.—St. Louis, Mo.—Bids are asked until noon, Aug. 20, for construction and delivery of two self-propelling hydraulic dredges and their pontoon pipe lines. Major Thomas L. Casey, Engr. (Advertised, Engineering News.)

UNDERGROUND CABLES.—Washington, D. C.—Bids are asked until July 21, noon, for furnishing underground signal and telephone cables for the Electrical Department of the District of Columbia. (Advertised Engineering News.)

BREAKWATER.—New Bedford, Mass.—The Harbor and Land Commissioners, State House, Boston, are reported to be asking for bids to extend breakwater at Padanaram, on Buzzards Bay, about six miles west of New Bedford. Cost is not to exceed $10,000.

LEVEE.—Clarksdale, Miss.—T. G. Dabney, Ch. Engr. Levee Bd., states that the contract for enlarging levee banquette on Sections 19H, 20H and 21H (bids opened July 5) has been awarded to MARTIN JENNINGS, 902 Trigg Ave., Memphis, Tenn., for $42,000.

EXCAVATION AND DREDGING.—Watertown, Mass.—Bids are asked until 8 p. m., July 27, for excavating and dredging at Galen St. bridge and Charles River. W. F. Learned, Town Engr.; J. H. L. Coon, Chn. Galen St. Com. (Advertised Engineering News.)

TUNNEL.—Boulder, Colo.—It is announced that the Colorado Northwestern R. R. Co. plans to drive a large tunnel in Boulder County. It would be about two miles in length and would cost about $250,000. S. B. Dick, Pres., at Meadville, Pa., is actively interested.

DREDGING.—Philadelphia, Pa.—The American Dredging Co. is reported to have decided to withdraw its bid for the construction of the 30-ft. ship channel in Delaware between the State line and the lower end of Tinicum Island. New bids probably will be called for by Thos. L. Hicks, Dir. Dept. Pub. Wks.

SUBWAY.—Rochester, N. Y.—The Railroad Committee of Council is stated to have decided to report favorably the ordinance requesting permission of the State Railroad Commission for a subway under the tracks on Culver Road. It will cost about $80,000, of which the New York Central R. R. will pay $40,000, the city $20,000 and the State $20,000.

DITCH.—Alexandria, Minn.—Bids are asked until 10 a. m., July 30, by E. P. Wright, County Audr., for digging and constructing Ditch No. 10, estimated to cost $8,735. The approximate amount of work to be done is as follows: Length, main ditch, 17,151 ft.; excavation, 30,123 cu. yds.; length, branches 17,000 ft., excavation, 29,468 cu. yds.; tile, 400 ft. of 18-in. and 1,000 ft. of 8-in.; culvert, stone and cement, 18-ft. cut.

DRAINAGE.—St. Augustine, Fla.—We are advised by J. E. Ingraham, Third Vice-Pres. Florida East Coast Ry., St. Augustine, Fla., that the Land Department of the Florida East Coast Ry. is contemplating draining lands at West Palm Beach, Fla. There will be 300,000 cu. yds. in canals and 177,000 cu. yds. in dikes. Bids will be received until Aug. 31. Bids will also be received for the complete machinery for a 1¼ dipper dredge. For further particulars address Alfred Newlander, Engr., St. Augustine.

DIKES.—New York, N. Y.—The following are the bids opened on July 5 by Col. W. R. Livermore, Corps Engrs., for furnishing (a) 3,000 cu. yds. rubble stone, (b) 5,000 cu. yds. quarry spalls for constructing and repairing dikes in Hudson River, as advertised in Engineering News: Bouker Contracting Co., 21-24 State St., N. Y. City, (a) and (b) $1.75; The Hudson River Dock & Dredging Co., 306 Noxon St., Syracuse, (a) $1.70, (b) $1.25; Wm. D. Fuller, New Baltimore, N. Y., (a) $1.24, (b) $1.19.

CANALS AND DITCHES.—Williston, N. Dak.—Bids are asked until 10 a. m., Sept. 11, by the U. S. Reclamation Service, for the construction of canals and ditches involving the excavation of about 410,000 cu. yds. of earth and for a pumping station and various structures, requiring about 140,000 ft. B. M. of lumber, about 2,000 cu. yds. of concrete and about 25,000 lbs. of structural steel, in connection with the Buford-Trenton Project. H. A. Storrs, Elec. Engr., Williston. (Advertised Engineering News.)

DAM.—Cody, Wyo.—Bids were received on July 10, at Billings, Mont., for construction of the Corbett dam, Shoshone Project, Wyo., as follows: Billings Construction Co., Billings, $66,750; Clement & Strange, Salt Lake City, $87,625; Pacific Coast Construction Co., Portland, Ore., $88,150; W. C. Bradbury, Denver, Colo., $128,100 (subject to condition that he be awarded contract for division 1, Garland Canal); Francis L. Sellew, Corbett, Wyo., $171,000. H. N. Savage, Supervising Engr., U. S. Reclamation Service.

COMPRESSED AIR MACHINERY.—Pittsburg, Pa.—The following are the bids received on June 25 by Maj. Wm. L. Sibert, Corps Engrs., for furnishing and installing compressed air machinery at new Lock 3, Monongahela River: Thos. M. Rees, Pittsburg (six bids), $13,600 to $17,400, according to different make of compressors and boilers; Hall Steam Pump Co., Pittsburg, $11,349;

Dravo, Doyle & Co., Pittsburg (six bids), $15,575 to $16,413; Platt Iron Wks., Pittsburg, $11,943, and A. D. Granger Co., New York, N. Y. (four bids), $13,000 to $16,900.

RIVER IMPROVEMENTS.—Des Moines, Iowa.—The City Council will ask for bids for Sections 1, 2 and 5 of the river improvement work, which comprises the construction of the cut-off canal from Raccoon River to Des Moines River; improvement of Des Moines River through business portion of city and construction of proper levees from Center St. dam to Sixth Ave. bridge on both sides and construction of a levee on left side of river above Sixth Ave. bridge to Zoo Lake, it is reported.

LEVEE AND DITCHES.—Peoria, Ill.—The Pekin and LaMarsh Drainage and Levee District has advertised to receive bids until August 1st for the construction of levee and ditches, consisting of about 312,000 cu. yds. of levee work, 40,000 cu. yds. of muck ditch and 100,000 cu. yds. of drainage ditches. Plans are being prepared for pumping plant to handle about 20,000 gallons of water per minute against a head of 20 ft. This will be a cash job. W. L. Pretyman, Henry Roos and Harm W. Mattheessen, Comrs. Harman Engineering Co., Peoria, Ill., Engineers.

TUNNEL CHANGES.—Chicago, Ill.—Bids opened on July 5 have been rejected for lowering and making changes in Van Buren St. tunnel under south branch of Chicago River; also building new roof over river section of tunnel under south branch of river at Washington St.; also building new roof of tunnel under river at La Salle St., as noted in Engineering News on June 28th. New bids will be received at the office of W. W. Gurley, 914 Marquette Bldg., until July 17 by the Receivers of the Chicago Union Traction Co., Jas. H. Eckels and Marshall E. Sampsell.

TWO BATTLESHIPS.—Washington, D. C.—Contracts for two battleships, the "Michigan" and the "South Carolina," were awarded on July 12th by the Secretary of the Navy. The NEW YORK SHIPBUILDING CO., of Camden, N. J., and the WM. CRAMP & SONS' SHIP & ENGINE BUILDING CO., of Philadelphia, Pa., are to build the two vessels (which are identical). Reciprocating engines are specified. The contract prices and terms of the two companies are $3,585,000 and 41 mos., and $3,540,000 and 40 mos., respectively. Bids for equivalent vessels equipped with steam turbines ranged from $3,689,000 to $4,450,000.

HARBOR IMPROVEMENTS, DOCKS.—Gary, Ind.—The GREAT LAKES DREDGE & DOCK CO., Chamber of Commerce Bldg., Chicago, has been awarded contract by the U. S. Steel Co. for construction of harbor and docks at the city of Gary, where the second largest steel plant in the world is to be built. Estimated cost is $1,500,000. The plans include 2,000,000 cu. ft. of dredging, 10,000 lin. ft. of timber dock, and breakwater; 3,000 lin. ft. of concrete dock and a concrete water intake, with two 10-ft. tunnels to connect with the shore. Work on the harbor improvements will begin in a few days, and are to be completed within two years.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until July 24 at the Bureau Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the Navy Yards, etc., Portsmouth, N. H., New York, N. Y., League Island, Pa., and Washington, D. C., a quantity of naval supplies as follows: Schedule 29—Portland cement, sand, etc. Schedule 30—Cutting-off machine, bar iron, bar steel, etc. Schedule 32—Hydraulic jacks, white pine, sheet lead, steel angles, sheet steel, sheet brass and copper, brass and iron pipe fittings, valves, etc. Applications for proposals should designate the schedule desired by number. H. T. B. Harris, Paymaster-Genl., U. S. N.

RETAINING WALL.—Catlettsburg, Ky.—We are officially advised that bids were opened on June 29 by Maj. J. G. Warren, Corps Engr., Cincinnati, Ohio, for constructing guide and retaining walls and paving at Lock No. 1, Big Sandy River, Catlettsburg, Ky. The bids were submitted on three plans and the following are the totals of bids received: (a) Plan 1, (b) plan 2, (c) plan 3, (d) paving: Louis H. Wendt, Newport, Ky., (a) $50,560; (b) $52,795; (c) $49,716; (d) $3,600. The Pitt Construction Co., Inc., Pittsburg, Pa., (a) $51,580; (b) $51,685; (c) $50,005; (d) $2,370. H. E. Talbott & Co., Dayton, Ohio, (a) $47,750; (b) $49,897; (c) $48,825; (d) $4,875. Baker Contract Co., Pittsburg, Pa., (a) $48,250; (b) $50,455; (c) $48,075; (d) $3,675. Itemized bids will be published next week under Contract Prices.

NEW CANALS, DREDGING.—Chicago, Ill.—The Chicago "Chronicle" on July 12th stated that, "at a meeting of the Sanitary District of Chicago yesterday, it was decided to proceed at once with the work of constructing the Calumet and Evanston auxiliary channels, and the finance committee was instructed to acquire the necessary property for the right-of-way. The total cost of both channels when completed will amount to $15,000,000. A strip of land 1,000 feet in width will be purchased for the Calumet channel, and the right-of-way of the Evanston channel will be 600 ft. wide along its entire length. The following estimates of the cost of the improvements, together with the size of the channels, were furnished by Chief Engineer Isham Randolph: Calumet Auxiliary Channel: Length of channel, 16 miles; width in earth section, 150 ft.; width in rock section, 90 ft.; minimum depth, 22 ft.; estimated cost of right-of-way, $500,000; capacity of channel when completed, 225,000 cu. ft. of water per minute; estimated total cost of channel when completed, $12,000,000; number of railroads to be crossed, 11. Evanston Auxiliary Channel: Length of channel, 9 miles; width of channel, 80 ft.; minimum depth, 12 ft.; estimated cost of right-of-way, $800,000; capacity of channel when completed, 60,000 cu. ft. of water per minute; estimated total cost of channel when completed, $3,000,000; number of railroads to be crossed, 8.

"The board approved a report of the engineering committee recommending that the bids for the annual dredging contract in the south branch of the Chicago River received on June 6 be rejected and new proposals for the work be submitted Sept. 26. Chief Engineer Randolph was instructed to submit estimates, first, on the proper charge for dredging in the Chicago River by contract, and, secondly, the cost of doing the work by the district, taking into consideration the amount of money invested in the plant. The board also decided to advertise for bids for furnishing the district with a dredging plant with an approximate capacity of 2,000 cu. yds. a day to enable the board to do its dredging work by day labor. The bids for the proposed dredging plant will be opened Sept. 26."

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

SEWER SYSTEM.—Schenectady, N. Y.—Itmeized statement of quantities, prices and complete bids for the new sewer system, Sections 1, 2 and 3, are here given. Bids were received on June 7 by Lewis B. Sebring, City Engr. The bidders on Section 1 were: (1) John Allen; (2) Joseph Clements & Son; (3) Kellan & Shaffer; (4) Schenectady Contracting Co.; (5) Golden & Lansing, Troy, N. Y.; (6) De Nallo & Klingberg, Kingston, N. Y.; (7) Beckwith Bros.:

Size of sewer to be laid at the following depths:	8 in.	10 in.	12 in.	Total.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Under 5 ft. in depth.											
5 to 6 ft. "	4,470	......	300	4,770	$0.11	$0.16	$0.13	$0.41	$0.08	$0.1	$0.12
6 to 7 ft. "	9,575	......	795	10,365	.12	.22	.15	.65	.09	.1	.14
7 to 8 ft. "	5,465	25	40	5,530	.19	.30	.21	.30	.11	.2	.22
8 to 9 ft. "	5,445	25	40	5,510	.26	.36	.31	.40	.13	.24	.32
9 to 10 ft. "	3,310	30	40	3,380	.30	.45	.38	.40	.24	.35	.38
10 to 11 ft. "	1,215	30	......	1,245	.45	.50	.54	.58	.28	.50	.48
11 to 12 ft. "	820	20	......	840	.50	.60	.68	.69	.31	.60	.58
12 to 13 ft. "	565	......	......	565	.70	.73	.85	.81	.35	.74	.72
13 to 14 ft. "	1,450	40	......	1,490	.75	1.25	.83	1.00	.48	.80	.89
14 to 15 ft. "	825	315	......	1,140	.90	1.50	.90	1.15	.65	1.00	.99
15 to 16 ft. "	945	455	......	1,400	1.05	1.68	1.27	1.22	.87	1.30	1.27
16 to 17 ft. "	65	300	......	365	1.20	1.73	1.45	1.45	.96	1.60	1.79
17 to 18 ft. "	......	265	......	265	1.35	3.00	1.65	1.65	1.09	2.00	2.00
18 to 19 ft. "	......	275	......	275	1.45	4.00	1.85	1.85	1.17	2.25	2.25
19 to 20 ft. "	......	265	......	265	1.50	5.00	2.00	2.05	1.40	2.50	2.50
10 to 21 ft. "	......	90	......	90	1.65	6.00	2.40	2.25	1.65	3.00	3.00
	34,150	2,135	1,210	37,490							
5 tons cast iron pipe					31.00	35.00	28.00	35.00	32.00	75.00	45.00
1000 ft. lumber					35.00	40.00	25.00	40.00	30.00	40.00	50.00
95 manholes					37.00	30.00	36.00	32.00	33.85	34.00	39.00
50 additional feet of depth in manhole					2.00	4.00	5.00	5.00	4.60	5.00	4.50
3 drop manholes					40.00	40.00	38.00	38.00	45.75	45.00	44.00
11 additional feet of depth in drop manhole					2.00	4.00	5.00	5.00	4.60	5.00	4.50
40 lampholes					12.50	6.00	9.00	7.00	9.50	5.00	18.00
6 flush tanks					70.00	70.00	62.00	75.00	64.50	60.00	65.00
5 cu. yds. concrete used outside of that shown on plans					6.50	......	9.50	6.50	5.50	7.50	8.00
1210 ft. 12-inch vitrified sewer pipe					.34	.40	.38	.37⅛	.46	.42	.48
2135 ft. 10-inch " " "					.27	.35	.28	.31¼	.31	.31	.37
34,150 ft. 8-inch " " "					.18	.27	.19	.21	.29	.24	.27
Totals					$24,030	$34,602	$26,619	$35,126	$24,242	$28,292	$30,864

Bidders on Section 2, sewer system, at Schenectady, N. Y.: (1) John Allen; (2) Joseph H. Clements & Son; (3) Kellam & Shaffer; (4) C. M. Gridley; (5) Beckwith Bros.; (6) Schenectady Contracting Co.

Size of sewer to be laid at the following depths:	8 in.	10 in.	15 in.	Total.	(1)	(2)	(3)	(4)	(5)	(6)
Under 5 ft. in depth					......	......	......	......	......	......
5 to 6 ft. "	3,681	......	......	3,681	$0.10	$0.16	$0.13	$0.11	$0.12	$0.14
6 to 7 ft. "	7,112	......	1,210	8,822	.11	.22	.15	.14	.14	.20
7 to 8 ft. "	5.007	450	150	5,607	.14	.25	.21	.16	.22	.26
8 to 9 ft. "	6,335	95	101	6,531	.20	.80	.31	.18	.32	.33
9 to 10 ft. "	2,855	190	310	3,355	.28	.39	.38	.26	.42	.40
10 to 11 ft. "	2,720	145	......	2.865	.42	.39	.54	.42	.48	.58
11 to 12 ft. "	1,775	......	500	2,275	.54	.50	.62	.50	.68	.69
12 to 13 ft. "	680	......	960	1,640	.68	.55	.78	.66	.78	.81
13 to 14 ft. "	720	......	805	1,525	.80	.75	.83	.77	1.08	.94
14 to 15 ft. "	655	140	1,260	2,055	.90	.85	.90	.97	1.12	1.08
15 to 16 ft. "	320	160	400	880	1.00	1.68	1.27	1.19	1.37	1.22
16 to 17 ft. "	20	......	......	20	1.20	3.00	2.25	1.39	3.25	1.45
17 to 18 ft. "	30	......	290	320	1.35	1.87	1.65	1.64	3.25	1.65
18 to 19 ft. "	......	......	165	165	1.50	2.13	1.90	1.70	3.25	1.85
19 to 20 ft. "	......	......	545	545	1.65	3.00	1.90	1.70	2.25	2.05
20 to 21 ft. "	......	......	......	......	......	......	......	......	......	......
	32,510	1,180	6,596	40,286						
10 tons cast iron pipe					31.00	35.00	28.00	32.00	45.00	35.00
1000 ft. lumber					35.00	40.00	25.00	30.00	50.00	40.00
114 manholes					33.00	30.00	36.00	37.00	39.00	32.00
60 additional feet of depth in manhole					2.00	4.00	5.00	4.00	4.50	5.00
1 drop manhole					37.00	40.00	38.00	39.00	49.00	38.00
5 additional feet of depth in drop manholes					3.00	4.00	5.00	4.00	4.50	5.00
43 lampholes					12.00	6.00	9.00	7.50	18.00	7.00
10 flush Tanks					70.00	65.00	62.00	70.00	65.00	75.00
6596 ft. 15-in. vitrified sewer pipe					.53	.63	.56	.55	.77	.59
1180 ft. 10-in. " " "					.26	.32	.28	.27	.37	.31¼
32510 ft. 8-in. " " "					.17	.25	.19	.18	.27	.21
Totals					$28,295	$35,048	$32,591	$29,670	$39,637	$35,455

Bidders on Section 3, sewer system, at Schenectady, N. Y.: (1) John Allen; (2) Kellam & Shaffer; (3) Schenectady Contracting Co.; (4) De Nallo & Klinburg; (5) Beckwith Bros.:

Size of sewer to be laid at the following depths:	8 in.	Total.	(1)	(2)	(3)	(4)	(5)
Under 5 ft. in depth..	......	......					
5 to 6 ft. in depth	300	300	$0.11	$0.35	$1.00	$0.15	$0.13
6 to 7 ft. "	450	450	.12	.65	1.00	.17	.14
7 to 8 ft. "	155	155	.14	.80	1.00	.22	.22
8 to 9 ft. "	150	150	.16	.85	1.00	.26	.32
9 to 10 ft. "	100	100	.18	.95	1.00	.40	.42
	1,155	1,155					
5 tons cast iron pipe			31.00	54.00	35.00	100.00	45.00
4,700 ft. 36-in. concrete sewer			10.75	7.78	7.60	8.00	7.63
5,000 ft. lumber			40.00	38.00	40.00	40.00	50.00
13 manholes			35.00	45.00	75.00	35.00	39.00
13 additional feet of depth in manhole..			2.00	9.00	10.00	5.00	4.50
5 lampholes			12.00	14.00	7.00	6.00	18.00
100 cu. yds. concrete used outside of that shown on plans			6.50	7.00	6.50	6.50	8.00
1,155 ft. 8-in. vitrified sewer pipe			.17	.20	.21	.24	27.00
Totals			$52,405.05	$39,473.00	$30,282.55	$40,011.80	$38,326.45

*MACADAMIZING ROAD. — Somerville, N. J.—Bids were received on June 22 for macadamizing North Branch Road, Bridgewater section, about 3.12 miles long, to be completed by October 15th. The bidders were: (a) Dickinson & Gill, Dover, N. J.; (b) WILLIAM HARDGRAVE, Somerville: 24,774 cu. yds. earth excavation—(a) 65 cts.; (b) 40 cts. 568 sq. yds. 10-in. rock—(a) $1.45; (b) $1.00. 25,044 sq. yds. 8-in. macadam—(a) 95 cts.; (b) 75 cts. 3,000 ft. underdrains—(a) 12 cts.; (b) 15 cts. 445 sq. yds. 4-in. macadam—(a) 75 cts.; (b) 30 cts. 300 sq. yds. cobble gutters—(a) 50 cts.; (b) 45 cts. Lump sum—(a) $41,563; (b) $29,979. Joshua Doughty, Jr., County Engr.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

STEEL WHARF SHEDS AND RAILWAYS.—Manila, P. I.—Bids are asked until 11 a. m., Oct. 15, for construction of two steel wharf sheds and wharf railways at Manila. Plans are on file at office of Engineering News, New York. Lieut.-Col. W. L. Fisk, Engrs., Director of Port Works. (Advertised, Engineering News.)

MEXICO.

The names of parties awarded contracts are printed in capital letters.

TACUBAYA.—The principal streets of this city are to be paved with asphalt.

NOGALES.—A large candy factory is to be constructed here by Rogers & Helvey, of Nogales.

GOMEZ PALACIO.—The Oton Katterfelt rubber factory here will double the capacity of its plant and make other improvements. HAENSELL & EVERETT, of Torreon, have been awarded the contract.

SAN LUIS POTOSI.—The Salinas Co., of Mexico, has been organized in London for the purpose of getting salt from lagoons between this place and Palamas. The company has a capital stock of $3,250,000.

CHIHUAHUA.—Anderson & Scobell, of Chihuahua, have organized a company here to be called the Chihuahua Powder Co., with a capital of $200,000. The company will manufacture a new explosive called Andiscobellite.

PUEBLA.—A theater to cost ,000 is to be erected here. The contrac been let.

SAN PEDRO SPRINGS.—A ill with a daily capacity of 300,000 ft. o mber is to be established here by C. Gre

ZACUALPAN.—The United tes and Mexico Mining Co. will establ 50-stamp mill on its property situate ar here. Philip H. Keeffe is Vice-Pres.

AGUSACALIENTES.—Elias G rra will establish a system of irrigation is lands in this state. The water will b en from the San Pedro de los Pirules R

TORREON.—It is stated that stem of water-works is to be installed h o supply the factories of Le Fe Compa Empacadora, La Union, La Esperanza, Alianza and Fred Wolff.

COYAMA.—Sonora.—Wilbur L. bey, of Chihuahua, will develop the dep of iron ore existing near here. The dep is near the proposed line of the Kansas Mexico & Orient R. R.

HIDALGO.—A company with a pital of $500,000 has been organized in orthern Mexico for the purpose of establish a large cement factory here. The factory ll have a capacity of 500 bbls. daily and ll cost about $100,000. Francesco Belden, of Monterey, is Treas.

GUANAJUATO.—The MEXICAN CONSTRUCTION & ENGINEERING CO. has been awarded the contract for the construction of a tunnel to drain the surplus water from this city. The tunnel will be 4,322 ft. long and 25 ft. in diameter.

MONTEREY.—Amador Sanchez, Mayor, of Laredo, Texas, it is reported, will develop coal beds which he owns in northern Mexico, near this place.

G. A. Pope, of New Orleans, La., is contemplating the establishment of a large trunk and valise factory here.

PUERTO LOBOS, Sonora.—A large soda factory with a daily capacity of 200 tons is to be established here. A large soda deposit has been discovered near here. The deposit is 20 miles square with an average thickness of 20 ft. A pier will be built at Lobos. L. C. Balch, of Mexico City, is interested.

TORREON.—The Torreon Iron Works has been organized here for the purpose of manufacturing all kinds of iron and brass materials. E. H. Barton and W. S. Dobie, of Torreon, are interested.

J. W. Williams, of Springfield, Mo., is back of a movement to establish a corset and ladies' underwear factory here. The proposed factory will cost about $150,000.

A new water-works and drainage system is to be installed in this city. The work will begin soon.

MEXICO CITY.—A factory for the manufacture of steel files is to be established here by Alexander Rueff, of Mexico City.

The Department of Public Instruction and Fine Arts will receive plans for a new building to be used as a normal school, to cost $35,000.

Manuel Cuesta Gallardo will establish a system of irrigation on his lands in the state of Jalisco and Machoacan. Water will be obtained from the Rio Lerma, the Rio de Santiago and Lake Chapala.

A factory for manufacturing plumbing and sanitary supplies is to be established here by Joseph Turner.

It is reported that Thomas Smith, of this city, will establish a factory for manufacturing piston rod packing.

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CIVIL SERVICE EXAMINATIONS

TRACER.—Panama.—The U. S. Civil Service Commission announces an examination on Aug. 22, 1906, to secure eligibles to fill vacancies as they may occur in the position of tracer of mechanical drawings in the Panama Canal Service, at salaries ranging from $83.33 to $100 per month. This examination is open for males only. Age limit, 20 to 45 years. Application form 1312.

ENGINEER.—Manila, P. I.—An examination is announced by the U. S. Civil Service Commission on Aug. 22, 1906, to secure eligibles to fill a vacancy in the position of engineer in the Bureau of Science, Manila, P. I., at $1,800 a year, and similar vacancies as they may occur in the Philippine Service. Age limit, 18 to 40 years. Application forms 2 and 375.

CONTRACT PRICES.

SEWERS.—[illegible]ickley, Pa.—Bids were received on Ju[illegible] 26 for construction of brick sewers in [illegible]gh of Edgeworth (Sewickley post-offi[illegible] Allegheny County, Pa. Elliott & Ba[illegible] Keystone Bldg., Pittsburg, are Engrs. [illegible]ntract was awarded to A. M. BOWMAN [illegible]O. The bidders were: (A) A. M. Bowm[illegible] Co., Publication Bldg.; (B) James H[illegible] Quade Co.; (C) International Constru[illegible] Co.; (D) Ott Bros.; (E) The Pitt Co[illegible]on Co.; (F) W. M. Chiholm; (G) Th[illegible] Cronin; (H) M. O'Herron & Co.; (I) [illegible] Sheets & Co.; (J) D. W. Challis & S[illegible] (K) Engineer's estimate:

BIDS RECEIVED FOR CONSTRUCTION OF SEWERS AT SEWICKLEY, PA.

	Quantity.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
36-inch brick 9-inch ring...	1,703 lin. ft.	$5.88	$6.50	$4.87	$6.46	$7.43	$7.90	$7.10	$6.54	$6.10	$6.27	$6.50
36-inch pipe...............	1,703 "	6.30	7.50	6.54	7.26	8.24	8.13	8.10	8.25	7.00	7.14	
30-inch brick 9-inch ring...	522 "	4.31	5.33	4.58	4.28	5.78	5.17	4.77	4.88	4.47	5.50	4.40
30-inch pipe...............	522 "	4.88	6.33	5.15	4.33	5.54	4.55	4.90	5.48	4.62	4.25	
24-inch "	3,287 "	3.33	2.84	3.12	4.51	4.14	4.41	4.20	4.09	8.18	5.95	2.75
18-inch "	1,160 "	1.83	2.07	2.39	1.70	2.30	3.45	1.99	1.85	1.72	2.05	1.60
15-inch "	2,950 "	1.47	1.90	1.76	1.63	2.27	2.40	1.75	1.71	1.45	2.38	1.25
12-inch "	5,400 "	1.14	1.55	1.43	1.16	1.62	2.25	1.15	1.44	1.30	1.90	1.10
Manholes, complete.........	30 pcs.	50.00	50.00	70.00	59.00	85.00	88.50	55.00	45.00	60.00	68.00	45.00
Catch-basins................	46 "	60.00	90.00	110.00	98.00	90.00	111.00	70.00	70.00	93.00	108.00	60.00
Concrete masonry...........	100 cu. yds.	7.00	10.00	5.00	8.50	8.00	5.50	10,00	7.00	9.00	6.50	7.50
Brick "	10 "	17.00	12.00	15.00	11.00	15.00	9,00	30.00	10.00	12.00	16.00	10.00
Sheathing and Planking....	100 M.	35.00	25.00	25.00	35.00	30.00	20.00	37.00	25.00	35.00	24.00	25.00
Total amount with brick sewer.......		$44,454	$48,823	$46,936	$51,842	$58,031	$64,281	$51,938	$49,965	$47,065	62,983	$42,269

INDUSTRIAL NOTES.

THE NATIONAL WOOD PIPE CO. has opened an office at 267 Dooly Block, Salt Lake City, Utah.

THE B. F. STURTEVANT CO., of Boston, Mass., will supply apparatus for completely equipping the new Waterside station of the New York Edison Co., New York City, with forced draft. It will consist of eight special steel plate fans driven by direct-connected vertical compound engines.

THE ELECTRIC CABLE CO., of 17 Battery Place, New York City, has received orders from the United States Government and the New York Central R. R. for its new waterproof paint. This paint will be used on the bottoms of vessels and tugs to prevent fouling and corrosive action.

RAYMOND CONCRETE PILES have been adopted for the foundations of the new nine-story reinforced concrete warehouse of the Belknap Hardware & Manufacturing Co., of Louisville, Ky. About 50,000 ft. of concrete piling will be required. The Oliver Co., of Knoxville and Louisville, are the general contractors.

THE PELTON WATER WHEEL CO. has practically completed its new shops at 19th and Harrison Sts., San Francisco, Cal., and it is expected that they will be in operation by Sept. 1. Their temporary offices are at 517 Market St., San Francisco, but they expect to be permanently located in the Monadnock Bldg., by Aug. 15.

W. S. BARSTOW & CO., 56 Pine St., New York, are the engineers for the New Jersey Co. of Matawan, N. J., who are making improvements and additions to their plant. The remodeled plant will have double the capacity of the old one; while a large dock will be built on Matawan Creek, and a new power-house erected to suppy electric power and light to the enclosed plant.

THE WELLMAN-SEAVER-MORGAN CO. has received an order from the Cia de Real del Monte y Pachuca for electric hoists for their mines in Mexico. The order comprises six hoists with double reels 12 ft. 8 ins. maximum diameter, each hoist to handle a load of 18,800 lbs. at 1,000 ft. per min.; six hoists with double reels 10 ft. 6 ins. diameter, each hoist to handle a load of 11,300 lbs. at 500 ft. per min., and one double drum electric hoist with drums 36 ins. × 48 ins., to handle a load of 8,600 lbs. at 500 ft. per min.

THE GOULDS MANUFACTURING COMPANY, Seneca Falls, New York, has recently opened a branch office in the Chemical Building, St. Louis, Mo. This will be under the management of Mr. H. C. Dudley and will be appreciated by those interested in economical power pumping machinery, especially by engineers and their clients, as it will enable prospective customers to secure promptly full information pertaining to The Goulds complete line of efficient triplex, rotary, centrifugal and electric pumps, deep well working heads, etc. Mr. Dudley is well known in the Southwest and will be pleased at all times to receive specifications and figure on any pumping propositions.

THE LAWRENCE PUMP & ENGINE CO., of Lawrence, Mass., designers and manufacturers of the "Vortex" centrifugal pumps, has appointed Charles F. Chase as its selling agent for the Middle States, with offices at 39 Cortlandt St., New York, and The Bourse, Philadelphia, Pa. Plans have been drawn for an extension to its works, which have been overcrowded for some months past. The addition will be used for an erecting shop and will be equipped with a traveling crane of 10 tons capacity. This addition will make available the space in the machine shop now used for erecting purposes and the necessary tools and equipment for doubling their present manufacturing facilities will be put in as soon as arrangements can be made.

THE ALLIS-CHALMERS CO., of Milwaukee, has received an order from the Boston & Montana Consolidated Copper & Silver Mining Co. for two 32 × 72-in. direct acting Corliss hoisting engines for installation at Butte, Mont. The hoists will have a lifting capacity of 34,000 lbs. per trip, from a depth of 3,500 ft. This includes the weight of the rope which is over 10 tons. The engines will operate on 140 lbs. steam pressure and develop approximately 2,500 HP. Each crank shaft will carry two steel hoisting drums, which will be provided with clutches, brakes and oil controlling cylinders so that they may be operated independently or in balance. During the month of June the company took more orders for machinery than at any previous period, of equal length, in its history. Sales aggregating over $3,000,000 were made to steel mills, factories and industrial establishments of all kinds located throughout the country. The company's foreign trade was also brisk. At the Reliance Works of the company hydraulic turbines aggregating 166,000 HP. are now under construction.

THE ALLIS-CHALMERS COMPANY reports the sale to the Interstate Railways Company, of Philadelphia, Pa., of new power equipment for the Wilmington & Edgemoore Electric Railway Company, Wilmington, Del., consisting of a 500-KW. Allis-Chalmers steam turbine and alternator, and a 40-KW. Allis-Chalmers generator for direct connection to a 10 × 10 Ideal engine. The turbo-generator unit is a 2,300-volt, 2-phase, 60-cycle machine, operating at a steam pressure of 140 lbs. and producing its rated output at 100% power factor with a 40° rise in temperature of the generator. Units similar to this one are now on order for the Meriden Electric Light Company, of Meriden, Conn.; Canton Light, Heat & Power Co., Canton, Ohio; Western Gas & Electric Company, of Aurora, Ill., and the City of Jacksonville, Jacksonville, Fla. The standard Allis-Chalmers construction is followed. The turbine and alternator rotors, each carried in two bearings, will rest on a continuous bed plate which is provided with suitable slides to allow for the expansion and contraction of turbine cylinder, and in order to preserve the alinement of the entire unit.

EXHIBITS AT THE CONVENTION OF THE AMERICAN WATER-WORKS ASSOCIATION.—At the annual convention of the American Water-Works Association, held at Boston, July 10 to 14, there were a large number of exhibits of water-works supplies. The names of the exhibitors are given below, followed by a statement of the nature of the exhibit where that is not indicated by the name:

Builders Iron Foundry, Providence, R. I.; Venturi Meter Recorder.

Central Foundry Co., 116 Nassau St., New York; Universal cast-iron pipe.

The Pitometer Co., 220 Broadway, New York.

The Addressograph Co., 232 West Van Buren St., Chicago, Ill.

Union Water Meter Co., Worcester, Mass.

Water Works Equipment Co., New York City; pipe tapping machine, etc.

The Fairbanks Co., New York City; hydrants and valves, extension valve boxes, indicator valve posts.

H. Mueller Mfg. Co., Decatur, Ill.; water-works supplies.

The Safety Meter Lock Seal Co., Columbus, Ohio.

National Meter Co., New York City.

Walworth Mfg. Co., Boston, Mass.; water-works supplies.

Henry R. Worthington, New York City; meters.

Thomson Meter Co., Brooklyn, N. Y.

Excelsior Wooden Pipe Co., San Francisco, Cal. (220 Broadway, New York.)

Modern Iron Works, Quincy, Ill.; service boxes.

H. W. Clark, Mattoon, Ill.; Clark meter box.

Cancos Mfg. Co., Philadelphia, Pa.; packing.

Thos. Watkins, Johnstown, Pa.; pipe joints.

F. S. Seagrove, New York City; cut-off valve.

Glauber Brass Mfg. Co., Cleveland, Ohio; water-works and plumbers' brass goods.

Neptune Meter Co., New York City.

Buffalo Meter Co., Buffalo, N. Y.

Hersey Mfg. Co., South Boston, Mass.; meters.

Pittsburg Meter Co., East Pittsburg, Pa.

A. P. Smith Mfg. Co., Newark, N. J.; tapping machine and water-works specialties.

Lead-Lined Iron Pipe Co., Wakefield, Mass.

Ross Valve Co., Troy, N. Y.; reducing valves, etc.

Joseph T. Ryerson & Son, Chicago, Ill.; boilers.

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TRADE PUBLICATIONS.

STEEL TANKS.—Oswego Boiler & Engine Co., Oswego, N. Y. Bulletin No. 40. Paper; 9 × 6 ins.; pp. 15; illustrated.

Circular black steel tanks are here described; a series of tables is appended, covering sizes, weights, capacities and prices.

CONCRETE MIXERS.—Chicago Concrete Machinery Co., 22 West Randolph St., Chicago. Paper; 3½ × 5¾ ins.; pp. 8; illustrated.

The Chicago concrete mixer is of the batch type and is a drum revolving on a horizontal axis, but does not tilt to discharge its load.

MARINE PROPELLING MACHINERY.—The Portland Co., Portland, Me. Bulletin No. 23. Paper; 7½ × 9½ ins.; pp. 4; illustrated.

This pamphlet gives specifications of the tugboat "Orion," including its engine and boiler, and of the U. S. suction dredge "Key West."

POWER PLANTS.—Westinghouse, Church, Kerr & Co., New York City. Paper; 6 × 9½ ins.; pp. 75; illustrated.

This pamphlet is No. 2 of "Work Done." Like its predecessor, it describes briefly, in untechnical fashion, a number of the recent engineering works completed by the company.

WATER SOFTENING.—Robert C. Smith Co., 929 Monadnock Block, Chicago, Ill. Paper; 6 × 9 ins.; pp. 6; illustrated.

The Smith continuous water-softener is automatic and utilizes the power of the water treated by it. In this pamphlet its design is shown and its mode of operation described.

MOTORS AND GENERATORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1052. Paper; 8 × 10½ ins.; pp. 12; illustrated.

This bulletin, which is a revision of No. 1033, is devoted to the Allis-Chalmers type B motor and generator. It gives detailed descriptions, rating, weights and dimensions.

ALTERNATING CURRENT GENERATORS. —Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1051. Paper; 8 × 10½ ins.; pp. 16; illustrated.

The belted type of the Allis-Chalmers alternating current generators are made in sizes from 37½ to 1,000 KW., for voltage from 2,200 to 13,200 volts. The bulletin contains descriptions of standard machines, and lists giving output, speed and voltage.

NIPPERS AND PLIERS.—Utica Drop Forge & Tool Co. Utica, N. Y. Paper; 6 × 9 ins.; pp. 32; illustrated.

This pamphlet, uniquely entitled "Plier Palmistry," describes the line of Utica nippers and pliers especially designed to fit the hand. List prices are given, and illustrations show the wrong and the right way to hold pliers.

WOOD-PRESERVATIVE.—Carbolineum Wood Preserving Co., 349 W. Broadway, New York City. Paper; 6½ × 9 ins.; pp. 4.

This pamphlet contains a compilation from the records of several engineering societies at which wood-preservation was discussed, particularly referring to the compound sold under the name of Avenarius Carbolineum, which has been successfully employed for surface treatment.

FIELD GLASSES.—The Warner & Swasey Co., Cleveland, Ohio. Paper; 3½ × 8½ ins.; pp. 28; illustrated.

The pleasure and the profit to be derived from the use of the Warner & Swasey prism binocular are interestingly suggested in the body of this pamphlet, which bears the name "Reflections of a Rambler." An appendix explains the merits of this instrument and those of a prism terrestrial telescope made by the same company.

PULVERIZERS.—Abbé Engineering Co., New York City. Paper; 6 × 9¼ ins.; pp. 92.

This catalogue presents the Abbé line of pebble mills, tube mills, cage disintegrators, and various other machines for the reduction of hard or soft materials; also rotary pressure blowers and rotary vacuum pumps. It is copiously illustrated with cuts of the machines. Besides descriptions of these, it contains also directions for their operation; prices are not listed.

FUEL OIL BURNING APPLIANCES.—Rockwell Engineering Co., New York City. Paper; 6 × 9 ins.; pp. 18; illustrated.

High and low pressure oil burners, fuel oil pumping systems, pressure blowers, burner plates, oil hose, pressure and storage tanks, are the chief appliances described in this pamphlet. It contains also a table showing capacity in gallons of fuel oil storage tanks.

ELECTRIC MOTOR TRUCKS.—American Locomotive Co., New York City. Paper; 9 × 6 ins.; pp. 58; illustrated.

A number of trucks for heavy electric cars and electric locomotives are illustrated and briefly described, the special features of interest being the line drawings showing the arrangement of springs, motors, etc. Halftone engravings show the completed trucks, which include some for the Paris suburban electric service of the Paris & Orleans Ry.

TESTS OF LOCOMOTIVES.—American Locomotive Co., New York City. Paper; 9 × 6 ins.; pp. 55; illustrated.

This pamphlet contains a review of the tests made on the Pennsylvania Ry. plant at the St. Louis Exhibition, the review being the work of Prof. W. F. M. Goss. The results of tests on eight individual engines are summarized, together with the general comparisons and conclusions presented in the official report of these tests, as made by the testing committee.

AIR WASHER AND HUMIDIFIER.—Buffalo Forge Co., Buffalo, N. Y. Paper; 6 × 9 ins.; pp. 36; illustrated.

The apparatus manufactured by this company is designed in connection with a ventilating system, to purify air of all dust soot, etc., and also to supply to it the requisite amount of humidity. It is adapted for use in all public buildings, especially those where cleanliness, even temperature or a certain amount of moisture is a desirable factor in the air supply.

POLYPHASE INDUCTION MOTORS.—Stanley-G. I. Electric Mfg. Co., Pittsfield, Mass. Bulletin No. 149. Paper; 8 × 10½ ins.; pp. 8; illustrated.

The induction motor here described has the laminated iron core of the stator freely exposed to the air around its entire periphery. Cast-iron ribs are not used in this style, which is built in various sizes up to 7½ HP. The frame is held together by means of a riveted construction; the motor will be known, consequently, as the riveted frame type.

CRANES.—Whiting Foundry Equipment Co., Harvey, Ill. Catalogue No. 45. Paper; 6 × 9 ins.; pp. 162; illustrated.

This catalogue, which supersedes No. 36, briefly describes each type of the Whiting electric travelers and other cranes. It is notable for its large number of illustrations, more than a hundred in all; they afford views not only of the cranes themselves, but also of railway yards, foundries, shops, etc., showing the cranes installed and in operation. The catalogue also contains a partial list of the users of Whiting cranes.

LOCOMOTIVES.—Locomotive Appliance Co., Chicago, Ill. Catalogue No. 18. Paper; 9 × 6 ins.; pp. 36; illustrated.

The Allfree-Hubbell locomotive is equipped with improved cylinders and valves, so designed as to retard exhaust opening and closure at early points of cut-off, thus reducing the usual cylinder clearance of 8% to 2½% or less; cylinder condensation also is reduced. These cylinders and valves may be applied to other types of locomotives as well. The pamphlet contains, in addition, comparative statistics, indicator cards showing tests, and extracts from valve-charts.

POWER TRANSMISSION MACHINERY.—Hill Clutch Co., Cleveland, Ohio. Catalogue F. Cloth; 5½ × 8 ins.; pp. 260.

This catalogue contains tables of dimensions, with illustrations and prices of friction clutch pulleys, friction clutch cut-off couplings, plain cast-iron pulleys, gears, rope sheaves, shafting, post hangers, drop hangers, pillow blocks, floor stands and ball and socket self-oiling bearings for floor stands and hangers. It includes also several pages of useful tables and rules for calculating power transmission and cipher codes for telegraphic communication.

RIVETERS.—Hanna Engineering Works, Chicago, Ill. Catalogue No. 3; 2d edition. Paper; 6 × 9 ins.; pp. 35; illustrated.

The Hanna riveter is of the pneumatic compression lever type, producing the gradually increasing pressure of the toggle joint movement until the desired pressure is reached, then a simple lever movement throughout a considerable space under uniform maximum pressure. Both stationary and portable machines are shown. The pamphlet contains also lists of sizes and capacities and a list of riveter parts, some testimonial letters and the names of some of the users.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Two pamphlets. Paper; 9 × 6 ins.; pp. 29 and 23; illustrated.

These are Nos. 56 and 57 of the company's so-called records of recent construction. The first deals with the history of the Baldwin locomotives on the Atchison, Topeka & Santa Fe Ry., from 33-ton engines of the 4-4-0 class in 1875, to the 144-ton tandem-compound engines of the 2-10-2 class in 1904, and the four-cylinder balanced passenger engines of the 4-4-2 and 4-6-2 classes in 1905. This pamphlet also contains an account of the run made in July, 1905, by the Scott Special, which averaged 50.4 miles per hour for 2,265 miles. The second bulletin describes the measures taken towards standardizing the locomotive equipment of the extensive system formed by the Harriman lines.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 26.

SEWERS.

Seneca Falls, N. Y.

Sealed proposals for building about 8 miles of 6" to 24" pipe sewers and appurtenances will be received at the office of the Municipal Board, Seneca Falls, N. Y., until 2 o'clock P. M. of Aug. 11th, 1906.

A certified check for $1,200 will be required with each bid. The successful bidder will be required to furnish a bond in the sum of $20,000 for the faithful performance of the work. Contractors will be paid monthly approximate estimates in cash, 85% of the amount due for work at that time done.

Plans may be seen at the office of the Municipal Board or the Engineers, and Specifications, Forms of Proposal, Contract, etc., obtained from the Village Clerk.

The right is reserved to reject any or all bids.

By order of the Municipal Board.

E. L. GUION,
Village Clerk.

MORRISON & FARRINGTON, INC., Engrs.,
Syracuse, N. Y. 3-2t

PROPOSAL FOR THE CONSTRUCTION OF SEWERS, Office of the Commissioners, D. C., July 17, 1906.—Sealed proposals will be received at this office until 12 o'clock, noon, August 6th, 1906, for constructing pipe sewers. Specifications and forms of proposals may be obtained at room 43, District Building. HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 3-2t

FORT MONROE, VA., July 16, 1906.—Sealed proposals, in triplicate, for furnishing labor and material for the reconstruction of bridges leading into Fort Monroe, Va., will be received at the Office of the Constructing Quartermaster, until noon, August 11, 1906. Bidders to state in proposals, name of manufacturers they propose to purchase material from. The United States reserves the right to accept or reject any or all parts of proposals therefor. Information furnished on application. Bids should be plainly marked as such on the envelope or outside wrappers. Address CAPTAIN R. H. C. KELTON, Qr. Mr. 3-4t

Situations Open

WANTED.—Man capable of estimating all kinds of cement work, to take interest in established company; must have some capital; engineer with some practice preferred. Address "ESTIMATOR," 1636 Monadnock Blk., Chicago. 3-1t

WANTED.—Structural draftsman with experience in detailing and laying out steel riveted work. Apply RAVITCH BROS., 81 Mangin St., New York. 3-1t

WANTED.—An assistant manager for contract work; must be experienced in general work, understand placing heavy concrete and arrangement of plant; state experience, references, age and salary. Address "B. A. 3," Engineering News, New York. 3-1t

WANTED.—Structural draftsman to lay out, order and check structural steel work, New York City; state age, experience and salary expected. Address "L. 3," Engineering News, New York. 3-1t

DRAFTSMEN and foremen for reinforced concrete building construction; only A1 men are requested to apply, giving full particulars as to experience, age and salary wanted. L. J. MENSCH, Monon Bldg., Chicago. 3-2t

WANTED.—Superintendent for trap rock quarry; one familiar with stone crushing machinery, quarrying and blasting; state experience and salary expected; steady position to competent man. Address "W. 3," Engineering News, New York. 3-2t

WANTED.—Mechanical engineer for a large lumber manufacturing plant, one who has had practical experience in a machine shop and saw mill; state age, experience and salary expected. Address "M. 3," Engineering News, New York. 3-1t

WANTED. — Men who understand heavy wooden construction mill work, and mechanical designing. Give reference, experience, salary, etc. THE LOW MOOR IRON CO. OF VIRGINIA, Mines Department, Covington, Va. 3-1t

WANTED—On annual salary, by a concern controlling a very large tract of land in the vicinity of New York City, a civil engineer and surveyor, competent to make topographical surveys, lay out building sites, construct roads, dams, and supervise landscape development. A man with experience and training in work of this character is essential. Address, giving references, salary expected, etc., "R. A 3," Engineering News, New York. 3-1t

WANTED, in New England, competent draftsman and designer for concrete construction. Must be posted on latest methods. State age, experience and salary expected. Address "F. A. 3," Engineering News, New York. 3-4t

WANTED.—Several first-class water tube boiler erectors. Address, stating experience, "M. 2," Engineering News, New York. 2-2t

WANTED.—A thoroughly competent man to take charge of extensive dam proposition as general superintendent; liberal salary to right man. Arrange appointment to apply in person to WM. J. OLIVER, Knoxville, Tenn. 3-1t

DRAFTSMAN for general construction work in connection with large acid plant; state age, experience and salary required. TENNESSEE COPPER CO., Copperhill, Tenn. 3-3t

DRAFTSMAN, architectural, who is familiar with general construction work; location, Southern state. Address "S. 3," Engineering News, New York. 3-3t

WANTED.—Timekeeper and clerk for stone crushing plant; middle-aged man preferred; steady position to competent man. Address "X. 3," Engineering News, New York. 3-2t

WANTED.—Draftsman, structural; A No. 1 only; accustomed to shop drawings, roof and building work. THE FOREST CITY STEEL & IRON CO., Cleveland, Ohio. 3-1t

WANTED.—Building superintendent; also a general superintendent for construction work. BARTLETT & KLING, General Contractors, Cedar Rapids, Iowa. 3-1t

SEVERAL first-class draftsmen wanted. Applicants please state experience and salary required. Address "O. A. 2," Engineering News, New York. 2-2t

WANTED.—Two first-class mechanical draftsmen experienced in machine design. Address N. P. PRATT LABORATORY, Atlanta, Ga. 3-1t

WANTED.—Men experienced in designing, estimating and detailing steel railway and highway bridges, mill building and structural work. Apply, stating age, education, experience, salary expected and how soon could report for work, to RIVERSIDE BRIDGE CO., Wheeling, W. Va. 3-1t

CHIEF MECHANICAL DRAFTSMAN, technical graduate, experienced transmission machinery; good, permanent prospects with growing concern in Ohio; state definite qualifications and salary expected. Address "S. 2," Engineering News, New York. 2-tf

WANTED—Competent superintendent on steel concrete construction; civil engineer preferred; none need apply who have not had previous experience with leading firms; state salary wanted, and possible time of report. Address "P. 1," Engineering News, New York. 2-2t

WANTED.—A correspondence clerk for engineering department; should be familiar with card index systems, be able to operate typewriter and to read drawings; state age, experience and salary required. TENNESSEE COPPER CO., Copperhill, Tenn. 3-3t

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